

2017 FISHERMEN'S BASIN AND JETTY REHABILITATION

PORT DOVER, ONTARIO

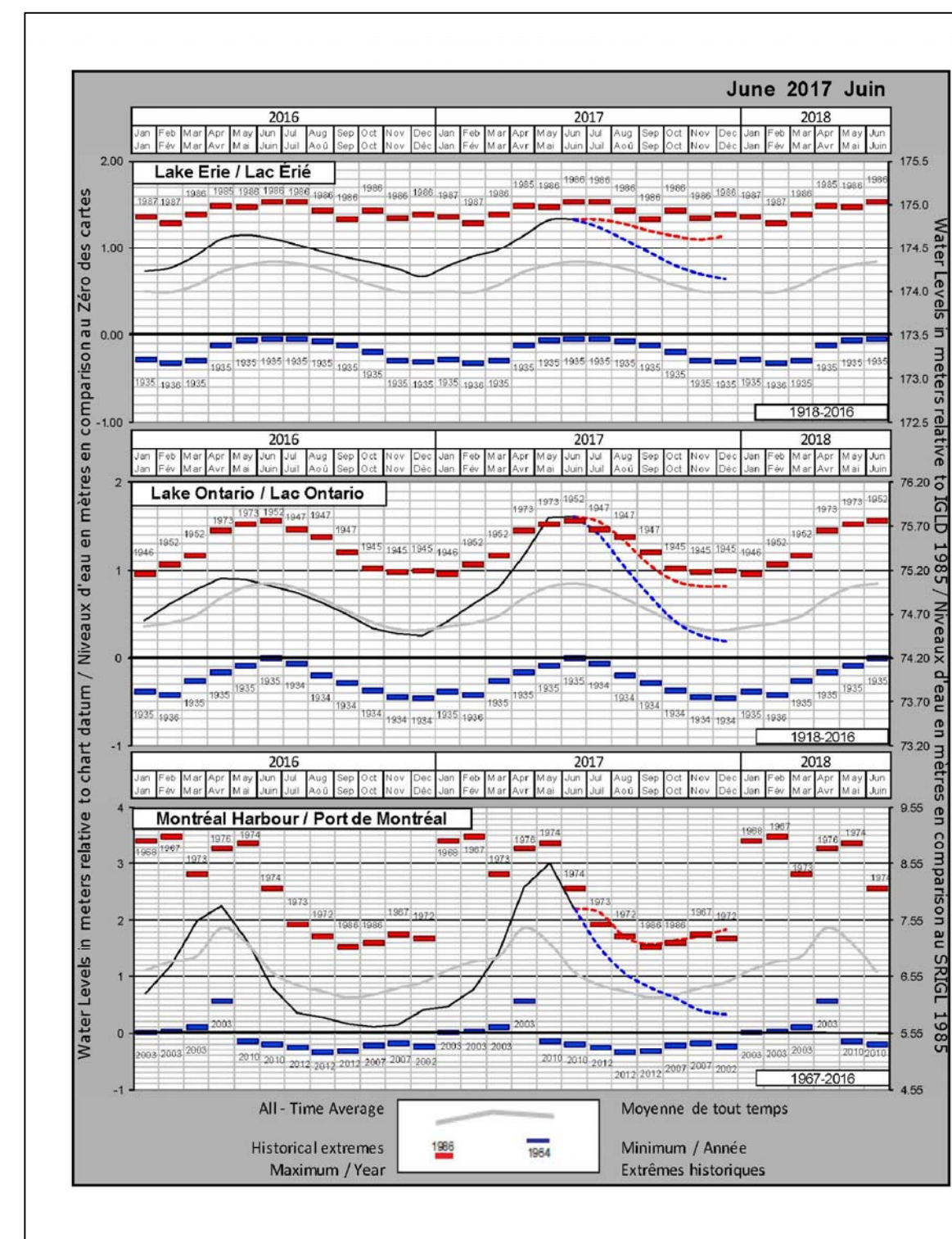
DRAWING INDEX:

- MA-00 - TITLE PAGE
- MA-01 - EXISTING SITE PLAN
- MA-02 - EXISTING CONDITIONS AND REMOVALS
- MA-03 - EXISTING CONDITIONS AND REMOVALS
- MA-04 - EXISTING TYP. SECTIONS
- MA-05 - REPAIRED JETTY LAYOUT PLANS
- MA-06 - REPAIRED JETTY LAYOUT PLANS
- MA-07 - REPAIRED TYP. SECTIONS
- MA-08 - TYP. DETAILS FOR JETTY 3 & 7
- MA-09 - TYP. DETAILS
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- MA-11 - TYP. DETAILS
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- MA-13 - SITE PLAN OF NEW ASPHALT AND SERVICE REPAIRS
- MA-14 - TYP. SECTIONS OF EXISTING PAVING CONDITIONS
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- MA-16 - TYP. STORM SEWER REPAIR DETAILS
- MA-17 - SITE PLANS OF EAST WALL REPAIRS
- MA-18 - TYP. FENDER DETAILS (EAST WALL)
- MA-19 - TYP. LIGHT BASE DETAILS (EAST WALL)

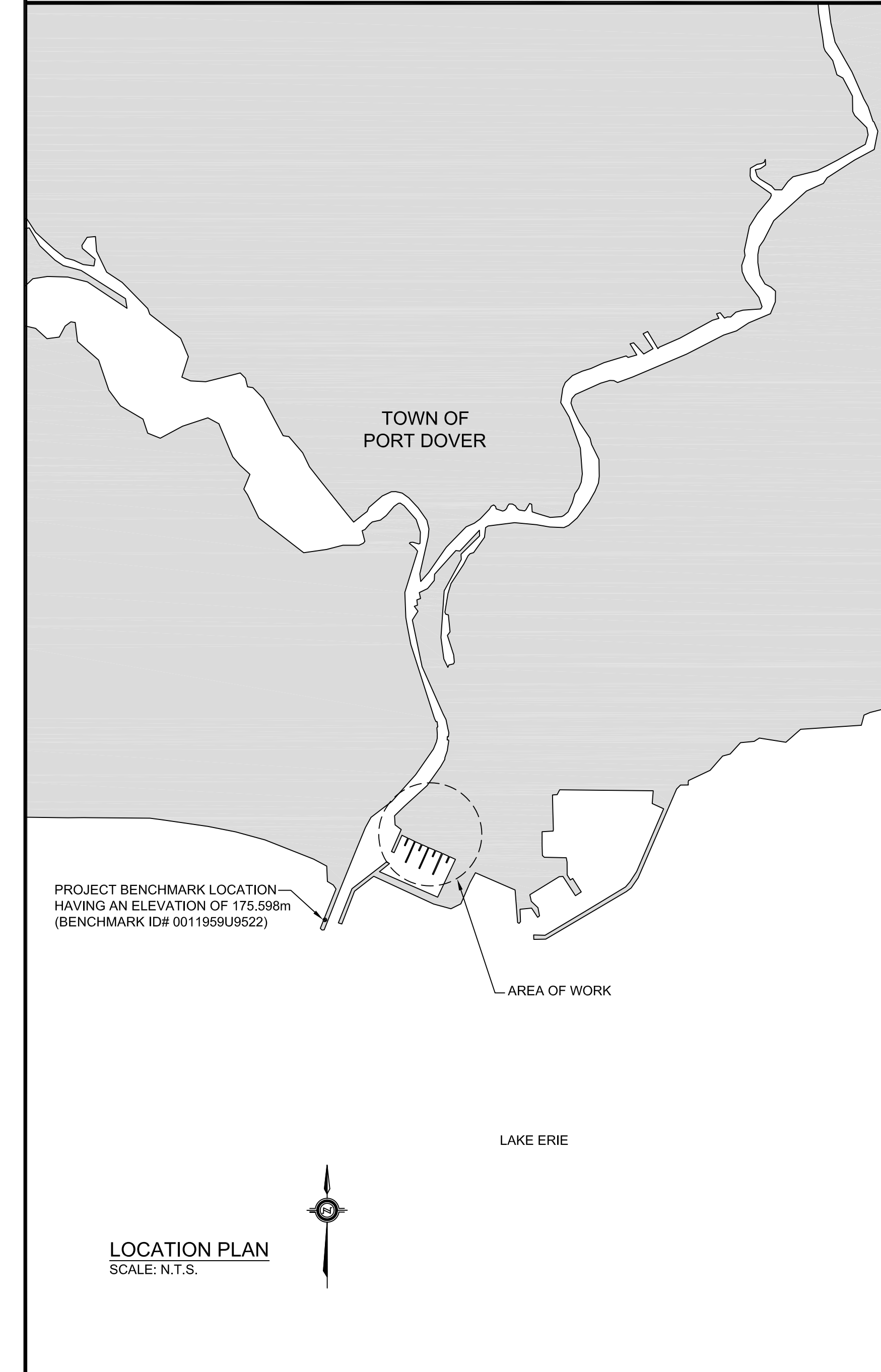
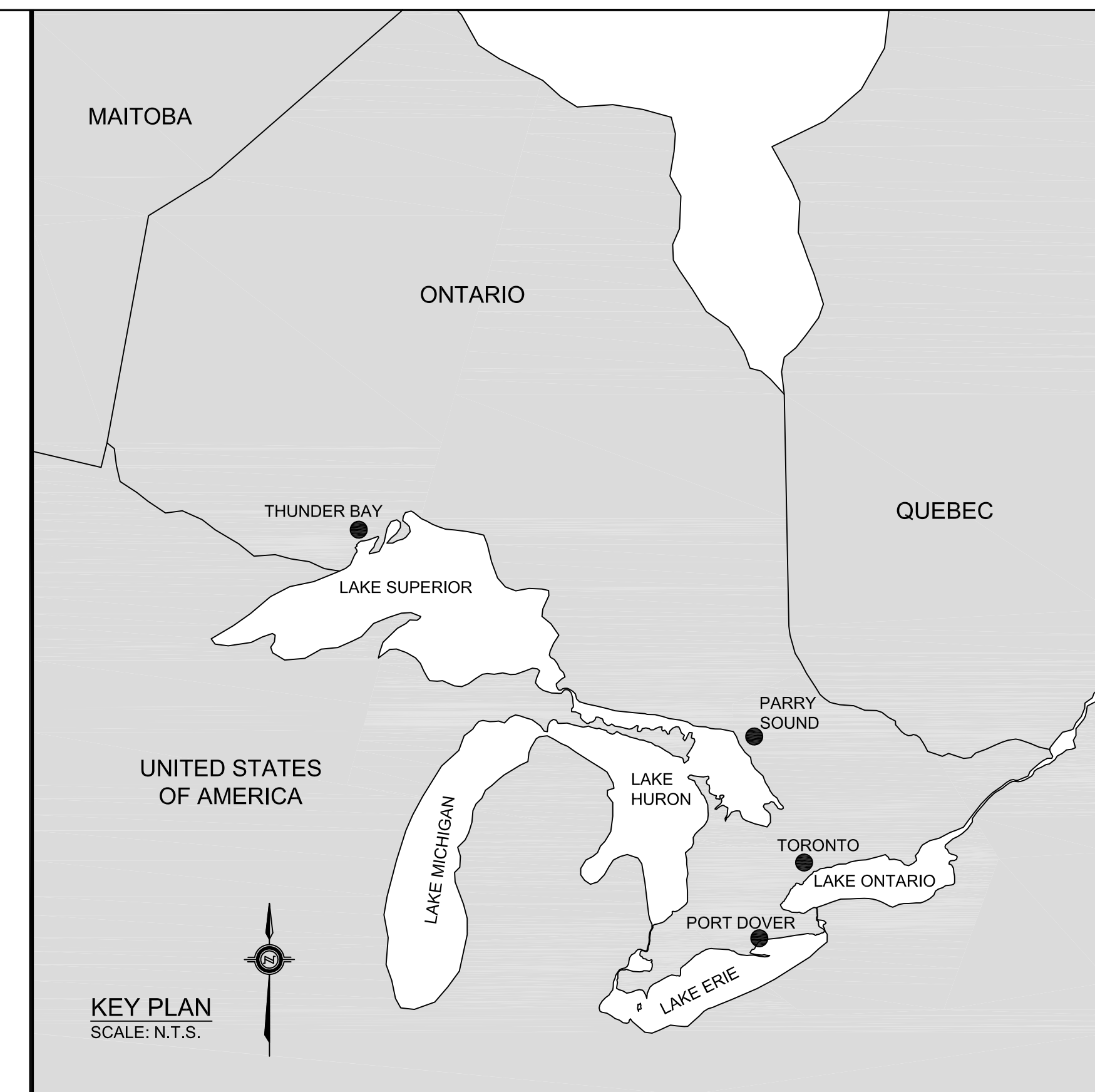
- E-01 - SITE PLAN OF NEW ELECTRICAL WORK
- E-02 - TYP. ELECTRICAL DETAILS

NOTE:
ALL NEW CONCRETE WORK, ELECTRICAL WORK, PAVING AND NEW FENDERING LOCATED ALONG THE EAST WALL IS NOT INCLUDED IN SCENARIO "A" OF THE BID DOCUMENT.

WATER LEVEL CHART



INFORMATION OBTAINED FROM MONTHLY WATER LEVEL BULLETIN GREAT LAKES AND MONTREAL HARBOUR CANADIAN HYDROGRAPHIC SERVICE.
INFORMATION ALSO AVAILABLE AT THE FOLLOWING WEB SITE:
<http://www.waterlevels.gc.ca/C&A/bulletin-eng.html>



GOVERNMENT OF CANADA / GOUVERNEMENT DU CANADA
FISHERIES AND OCEANS / PÊCHES ET OCÉANS

SMALL CRAFT HARBOURS CENTRAL AND ARCTIC REGION



RIGGS ENGINEERING
Riggs Engineering Ltd.
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Fax: (519) 657 8631
Website: www.riggsgengineering.com

- 1 Detail No.
- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

PROJECT:
FISHERMEN'S BASIN JETTY REHABILITATION

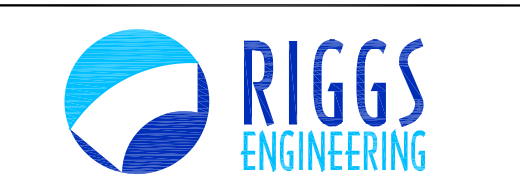
DESCRIPTION:
EXISTING SITE PLAN

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
PORT DOVER ONTARIO

DRAWING NO.: MA-01	LOCATOR CODE: 140433-001
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CENTRAL AND ARCTIC REGION

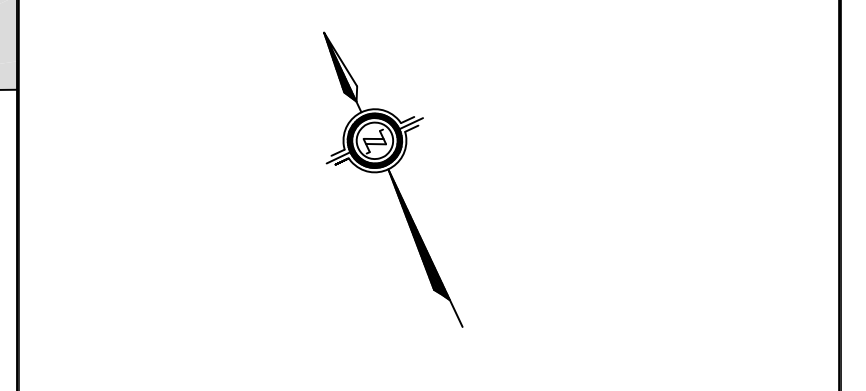


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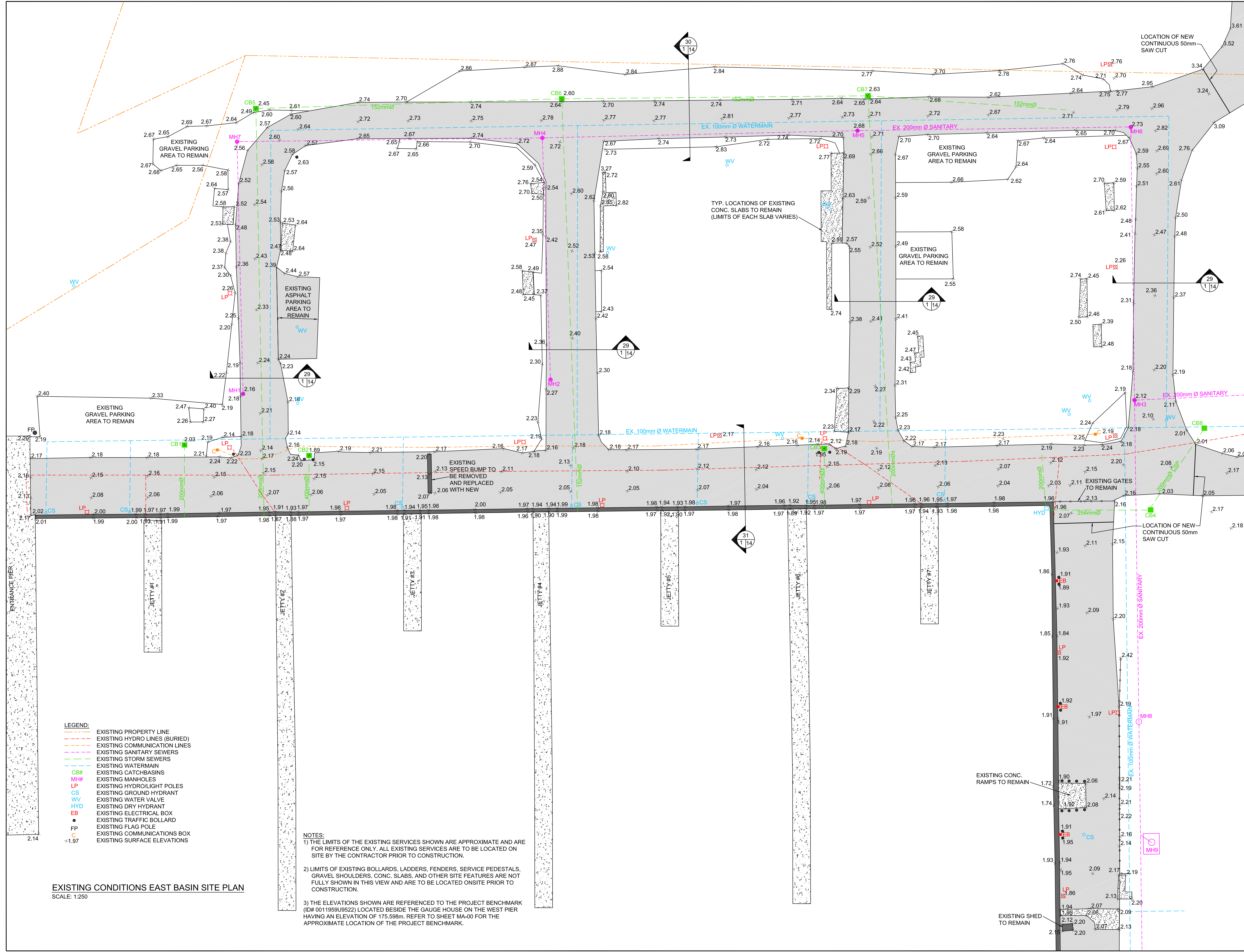
PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
EXISTING SITE PLAN

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: MA-01	LOCATOR CODE: 140433-001
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- LEGEND:**
- EXISTING PROPERTY LINE
 - EXISTING HYDRO LINES (BURIED)
 - EXISTING COMMUNICATION LINES
 - EXISTING SANITARY SEWERS
 - EXISTING STORM SEWERS
 - EXISTING WATERMAIN
 - CB# EXISTING CATCHBASINS
 - MH# EXISTING MANHOLES
 - LP EXISTING HYDROLIGHT POLES
 - CS EXISTING GROUND HYDRANT
 - WV EXISTING WATER VALVE
 - HYD EXISTING DRY HYDRANT
 - EB EXISTING ELECTRICAL BOX
 - EXISTING TRAFFIC BOLLARD
 - EXISTING FLAG POLE
 - EXISTING COMMUNICATIONS BOX
 - EXISTING SURFACE ELEVATIONS

- NOTES:**
- 1) THE LIMITS OF THE EXISTING SERVICES SHOWN ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. ALL EXISTING SERVICES ARE TO BE LOCATED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - 2) LIMITS OF EXISTING BOLLARDS, LADDERS, FENDERS, SERVICE PEDESTALS, GRAVEL SHOULDERS, CONC. SLABS, AND OTHER SITE FEATURES ARE NOT FULLY SHOWN IN THIS VIEW AND ARE TO BE LOCATED ONSITE PRIOR TO CONSTRUCTION.
 - 3) THE ELEVATIONS SHOWN ARE REFERENCED TO THE PROJECT BENCHMARK (ID# 0011959U9522) LOCATED BESIDE THE GAUGE HOUSE ON THE WEST PIER HAVING AN ELEVATION OF 175.598m. REFER TO SHEET MA-00 FOR THE APPROXIMATE LOCATION OF THE PROJECT BENCHMARK.

EXISTING CONDITIONS EAST BASIN SITE PLAN
SCALE: 1:250

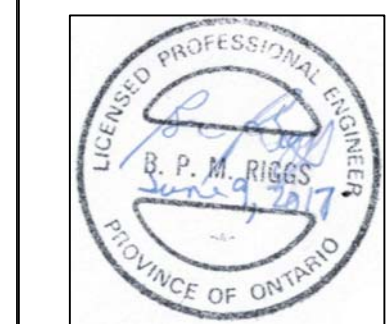
SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



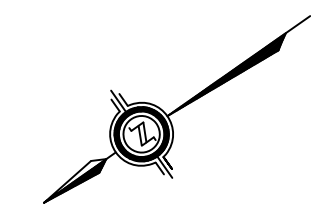
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- 3 drawing no. - where detailed refers to MA-

Stamp:



NOTES:



REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

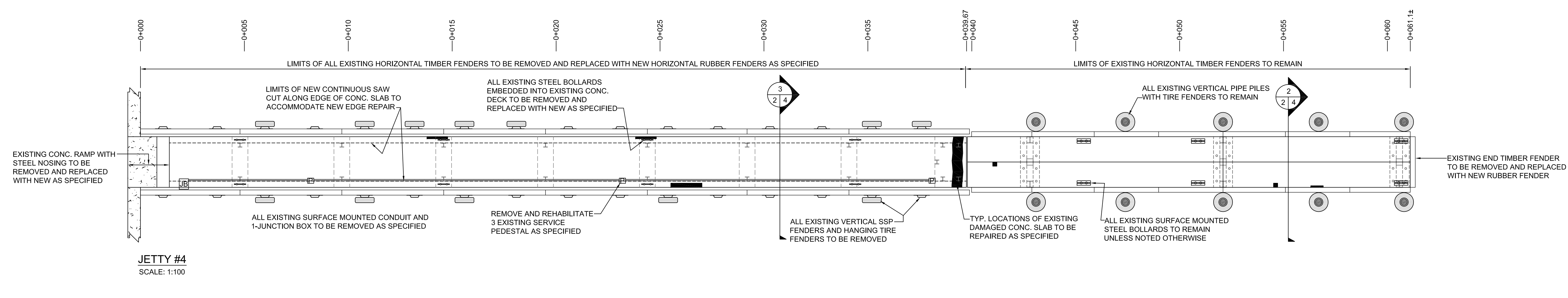
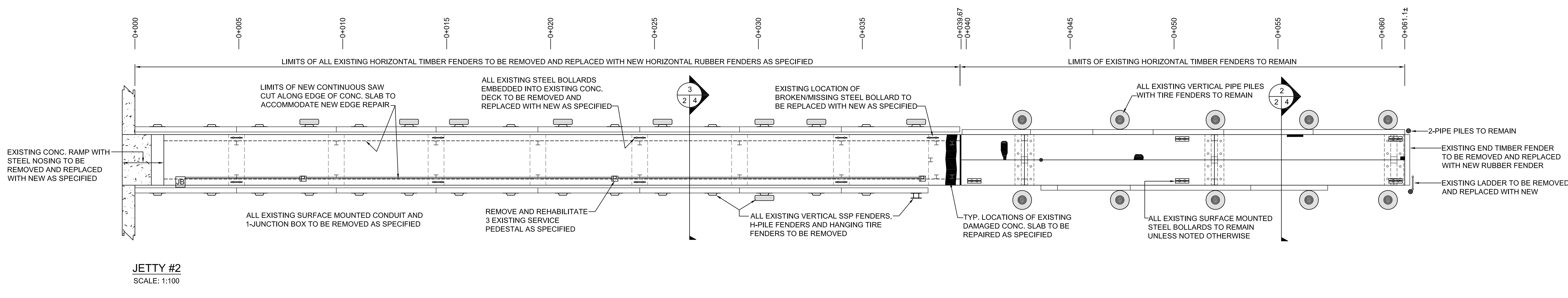
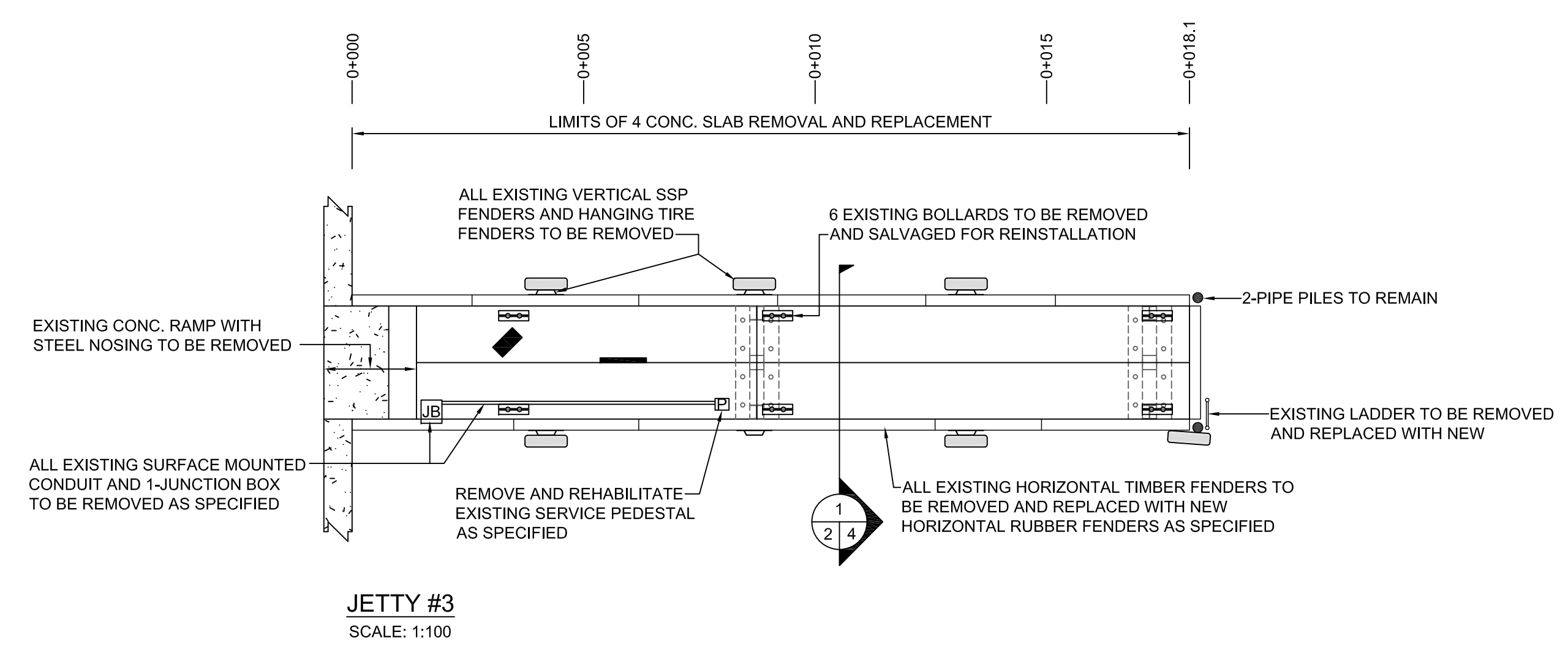
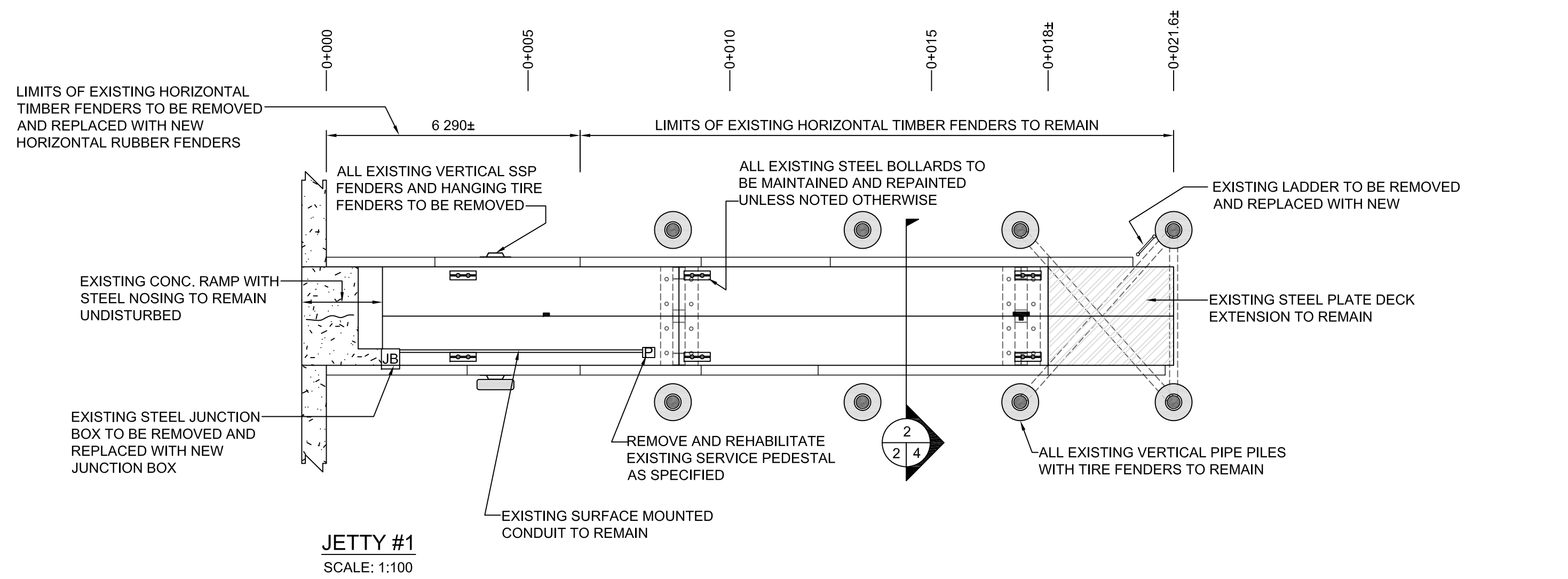
PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
**EXISTING CONDITIONS
AND REMOVALS**

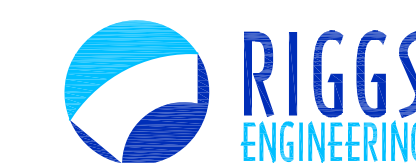
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: MA-02	LOCATOR CODE: 140433-001
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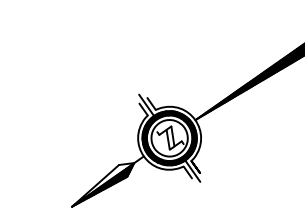
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- 3 drawing no. - where detailed refers to MA-

Stamp:



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REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

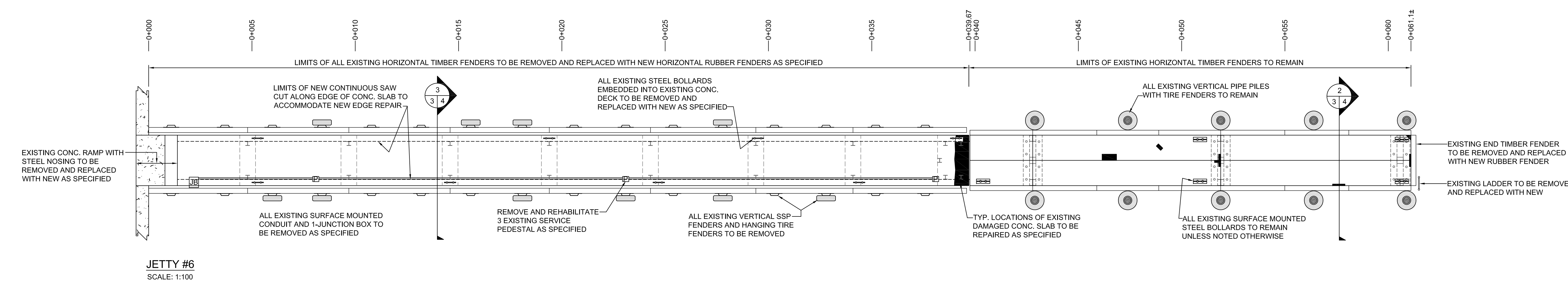
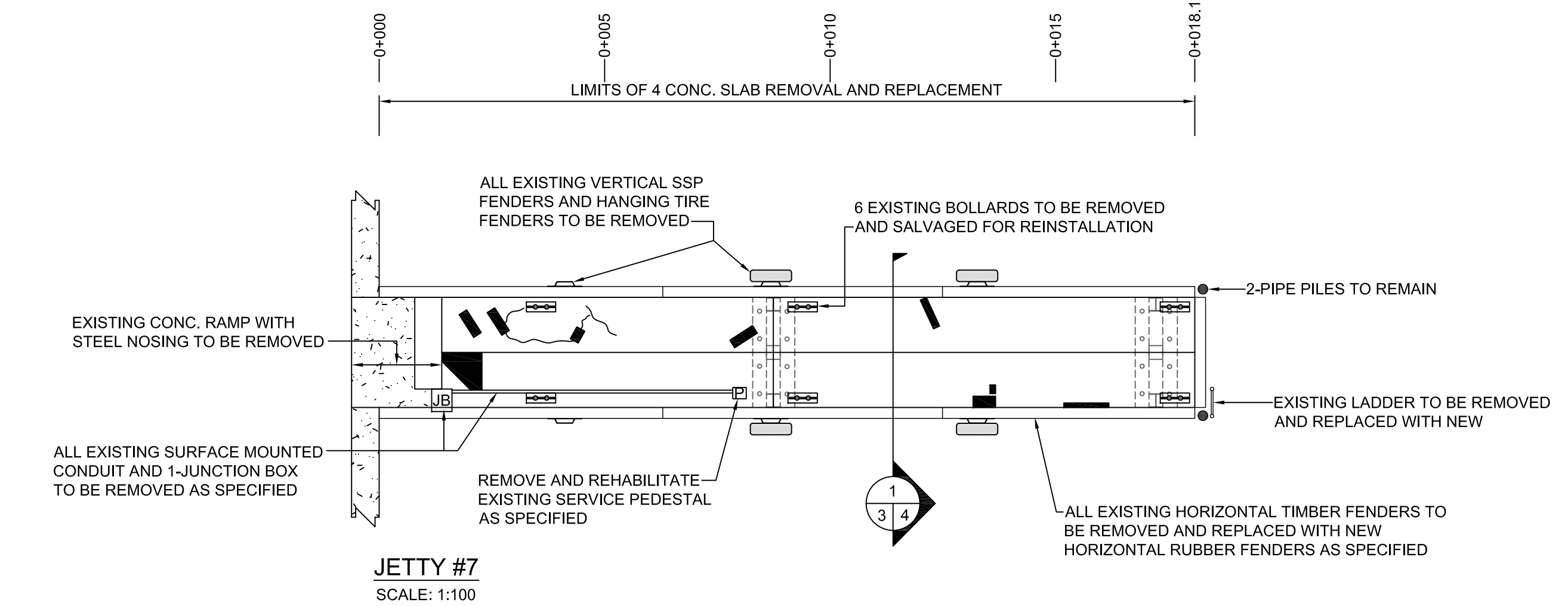
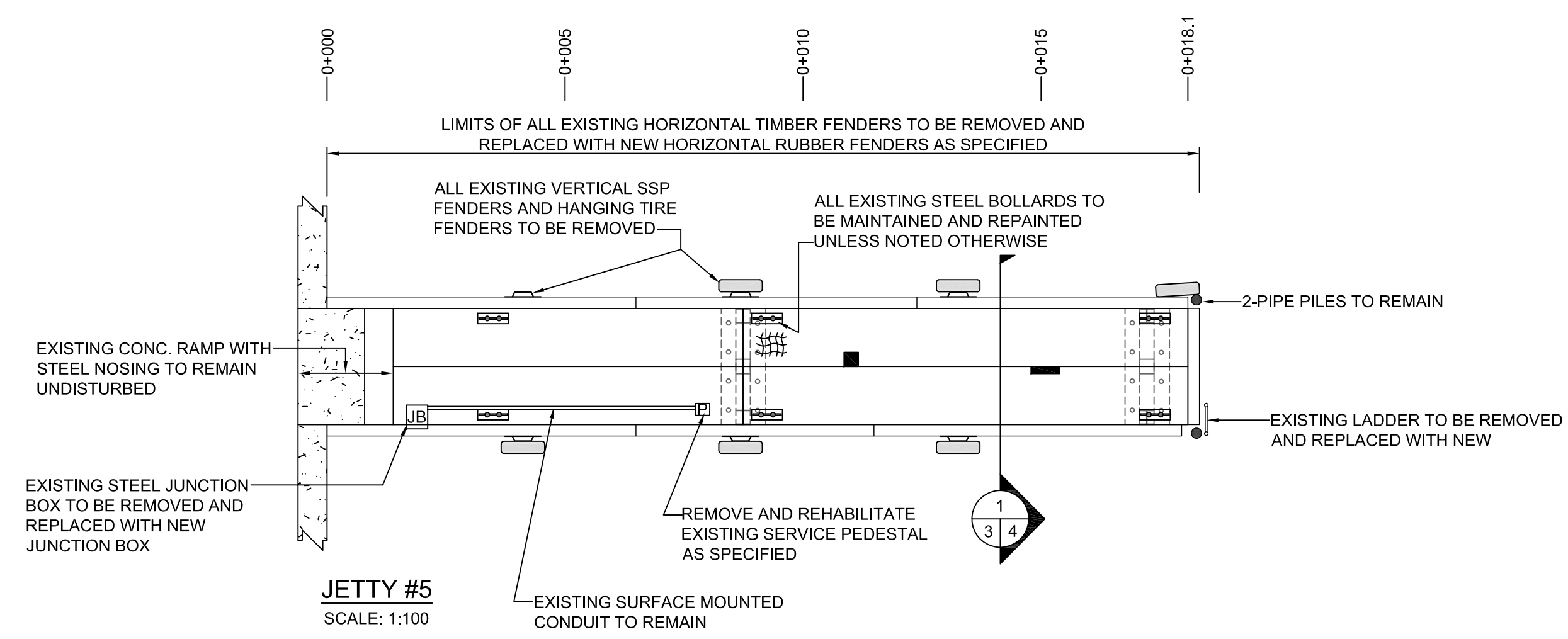
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
**EXISTING CONDITIONS
 AND REMOVALS**

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

DRAWING NO.: MA-03	LOCATOR CODE: 140433-001
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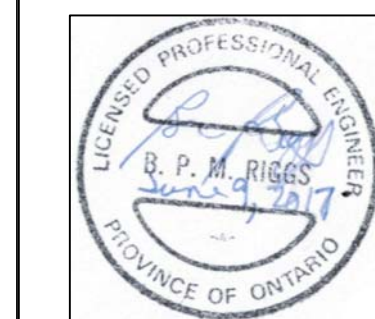
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Stamp:



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REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

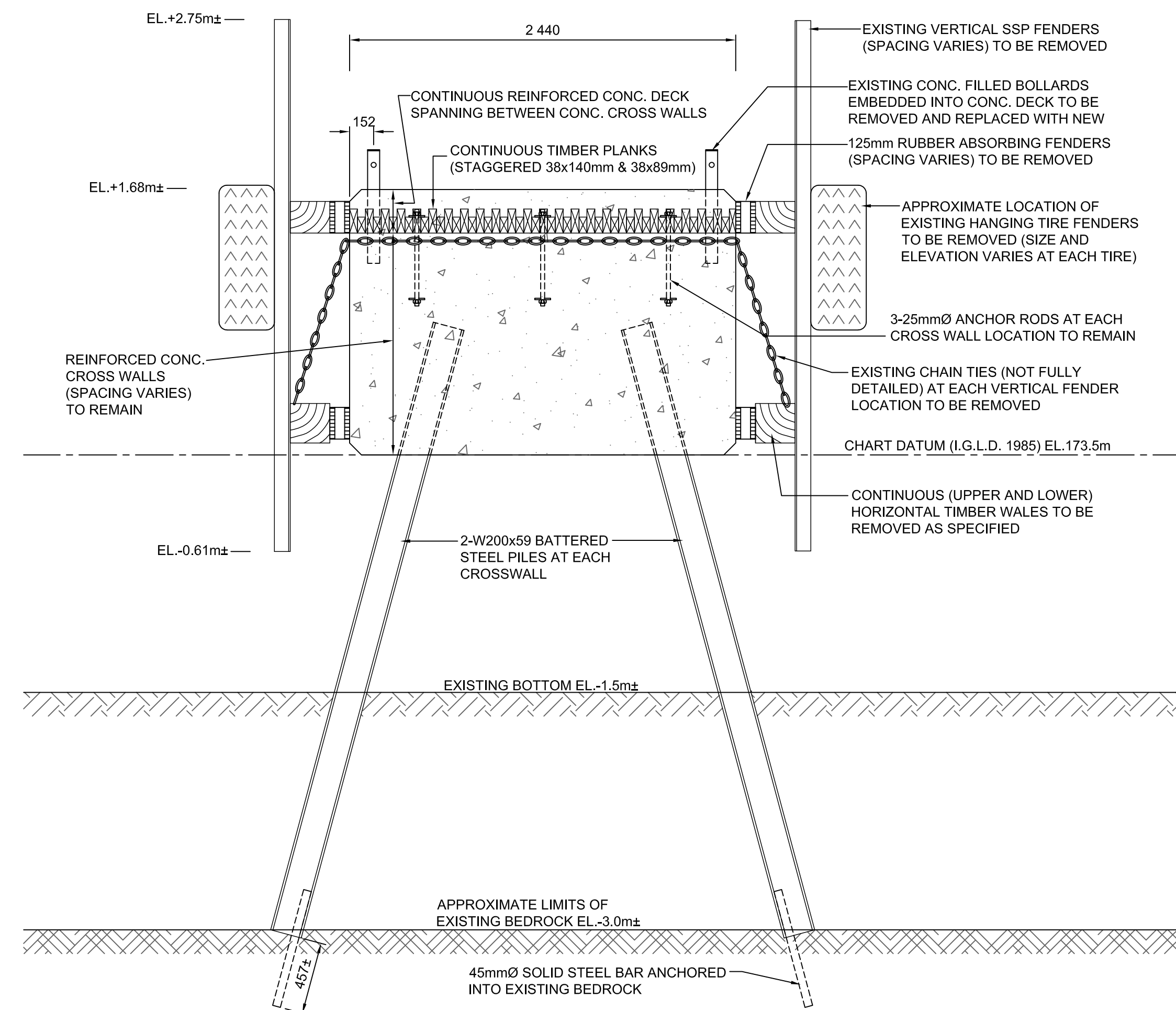
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
EXISTING TYP. SECTIONS

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

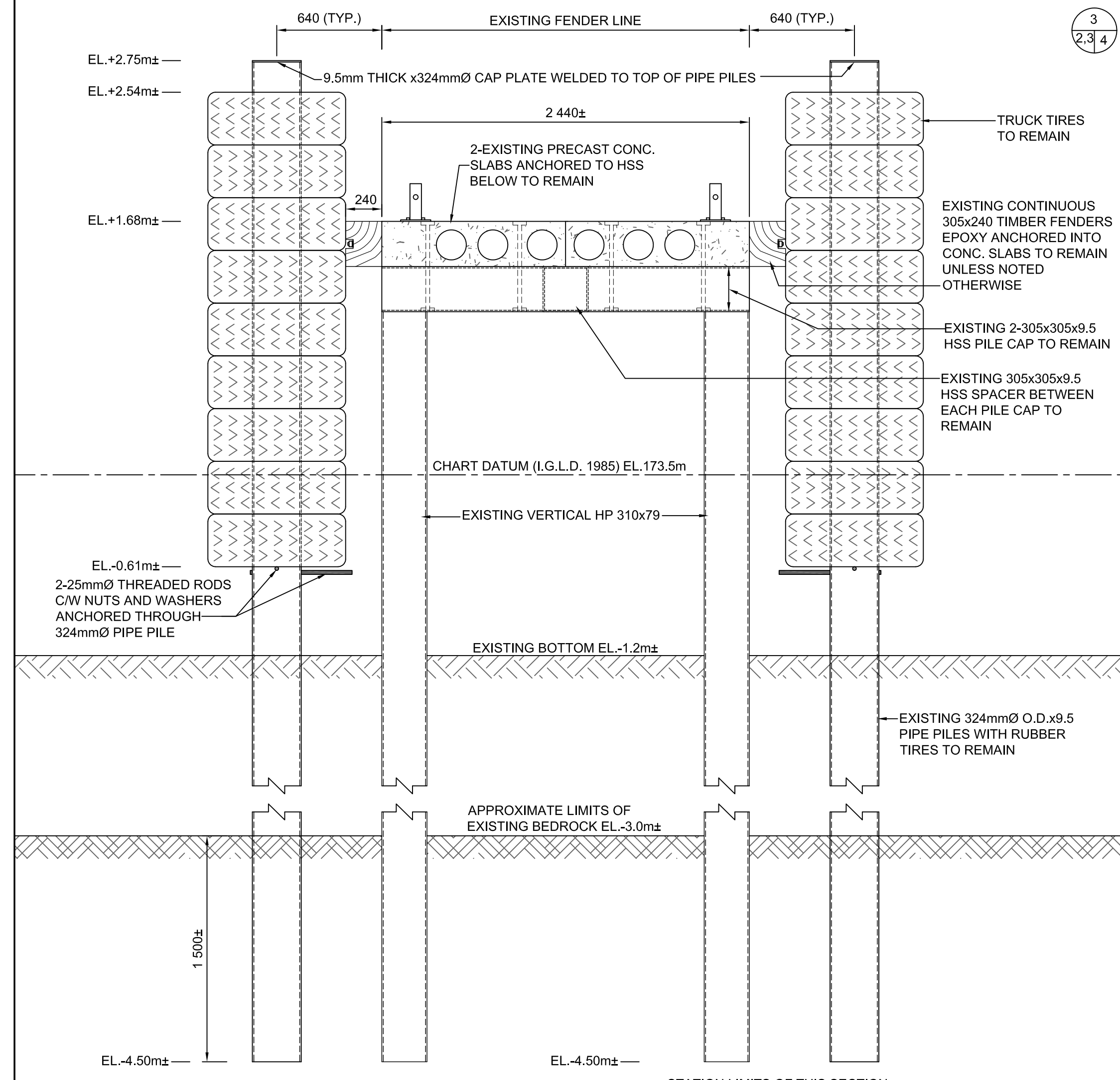
LOCATION:
**PORT DOVER
 ONTARIO**

DRAWING NO.: MA-04	LOCATOR CODE: 140433-001
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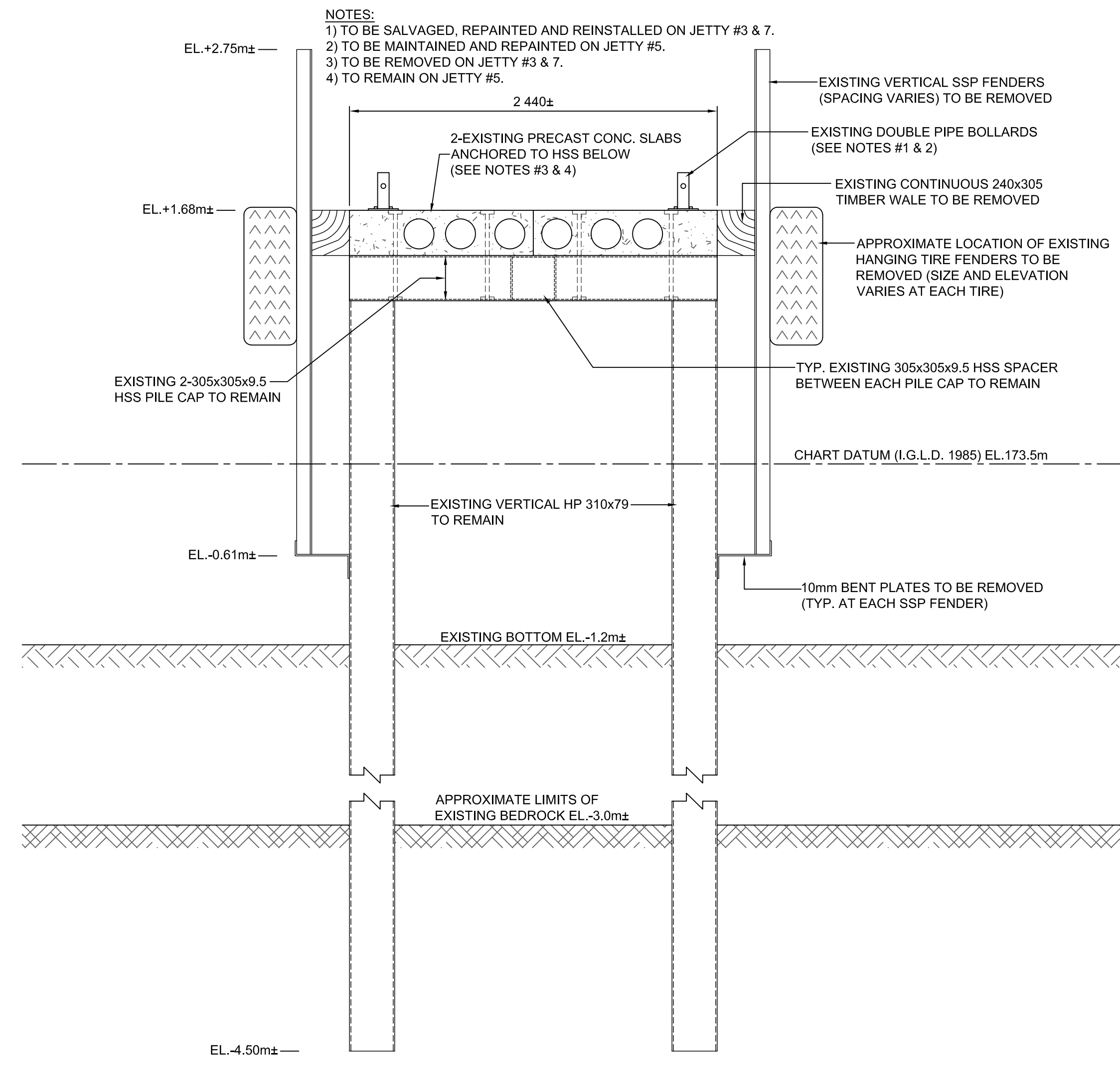
3 TYP. SECTION OF EXISTING JETTY #2, 4, 6
 SCALE: 1:25

STATION LIMITS OF THIS SECTION:
 JETTY #2 0+000 TO 0+040±
 JETTY #4 0+000 TO 0+040±
 JETTY #6 0+000 TO 0+040±



2 TYP. SECTION OF EXISTING JETTY #1, 2, 4, 6
 SCALE: 1:25

STATION LIMITS OF THIS SECTION:
 JETTY #1 0+000 TO 0+015±
 JETTY #2 0+040± TO 0+061.1±
 JETTY #4 0+040± TO 0+061.1±
 JETTY #6 0+040± TO 0+061.1±

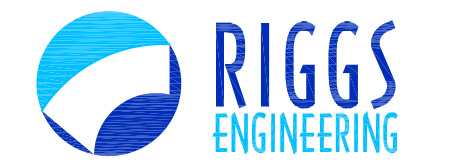


1 TYP. SECTION OF EXISTING JETTY #3, 5, 7
 SCALE: 1:25

STATION LIMITS OF THIS SECTION:
 JETTY #3 0+000 TO 0+018±
 JETTY #5 0+000 TO 0+018±
 JETTY #7 0+000 TO 0+018±

NOTES:
 1) TO BE SALVAGED, REPAINTED AND REINSTALLED ON JETTY #3 & 7.
 2) TO BE MAINTAINED AND REPAINTED ON JETTY #5.
 3) TO BE REMOVED ON JETTY #3 & 7.
 4) TO REMAIN ON JETTY #5.

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 CENTRAL AND ARCTIC REGION

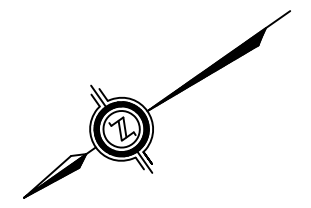


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SCALE: **AS NOTED** CLASS:

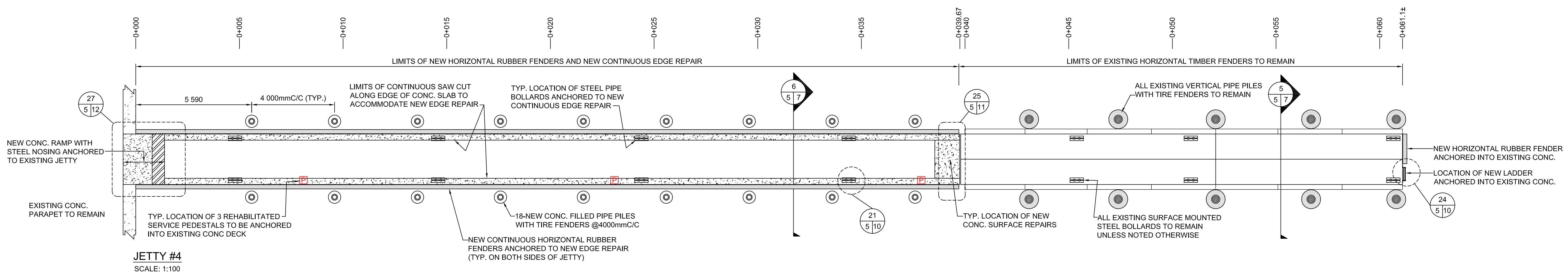
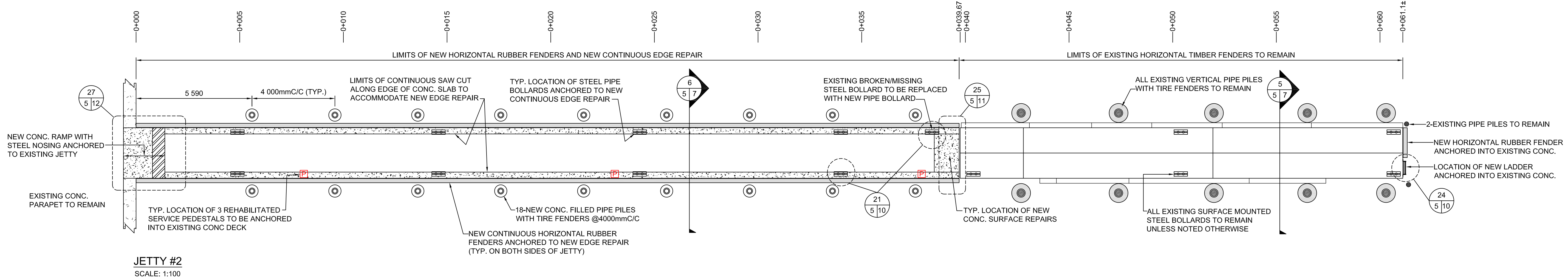
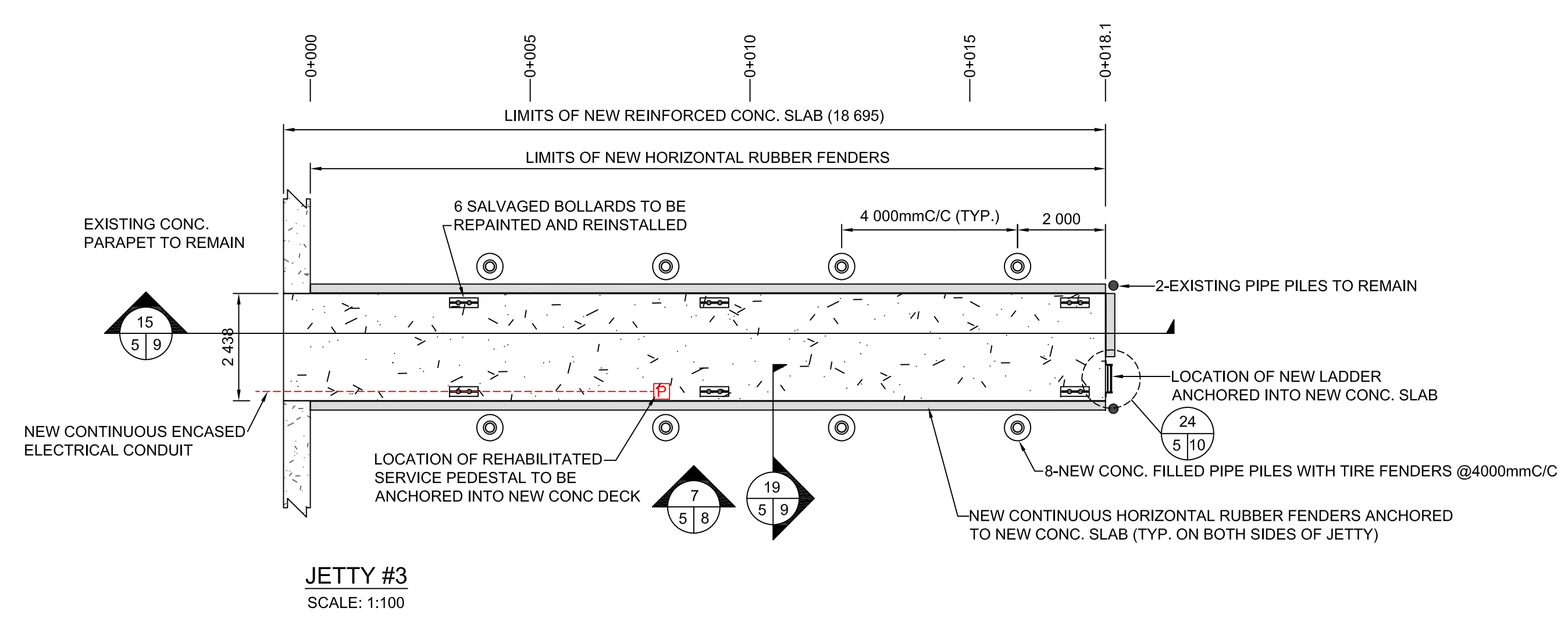
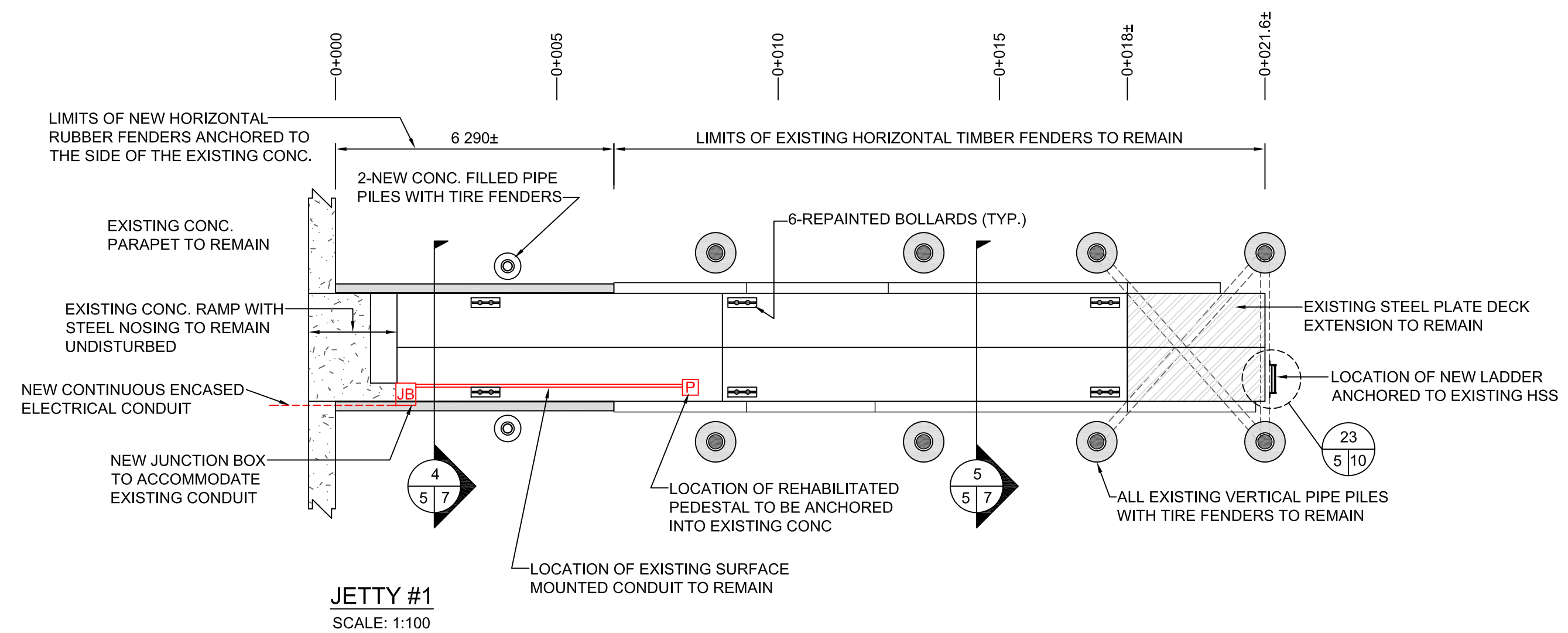
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
**REPAIRED JETTY
 LAYOUT PLANS**

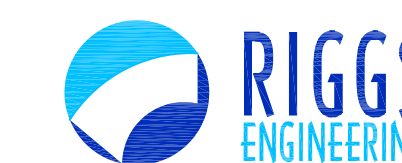
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

DRAWING NO.: MA-05	LOCATOR CODE: 140433-001
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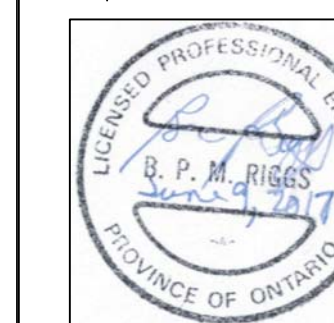
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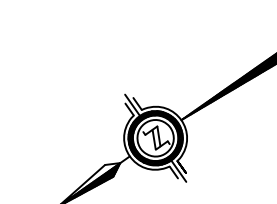
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- 3 drawing no. - where detailed refers to MA-

Stamp:



NOTES:



REVISIONS:	DATE:

SCALE: AS NOTED CLASS:

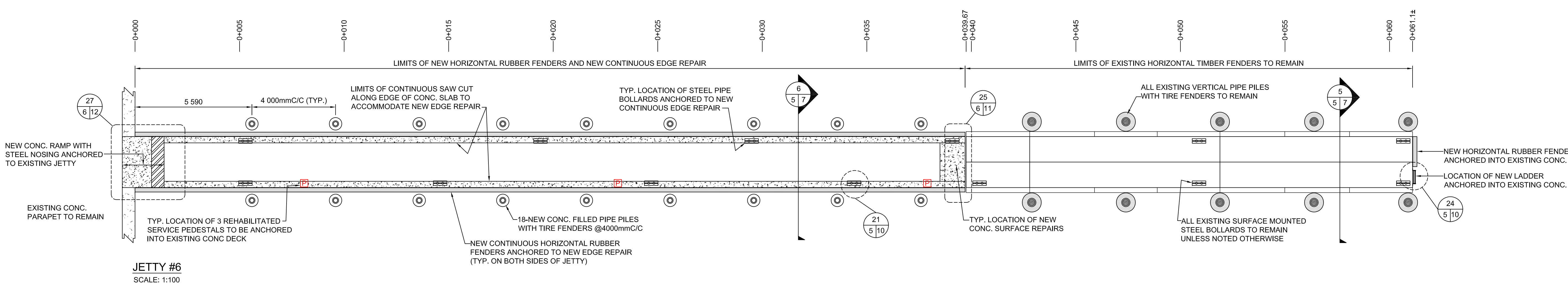
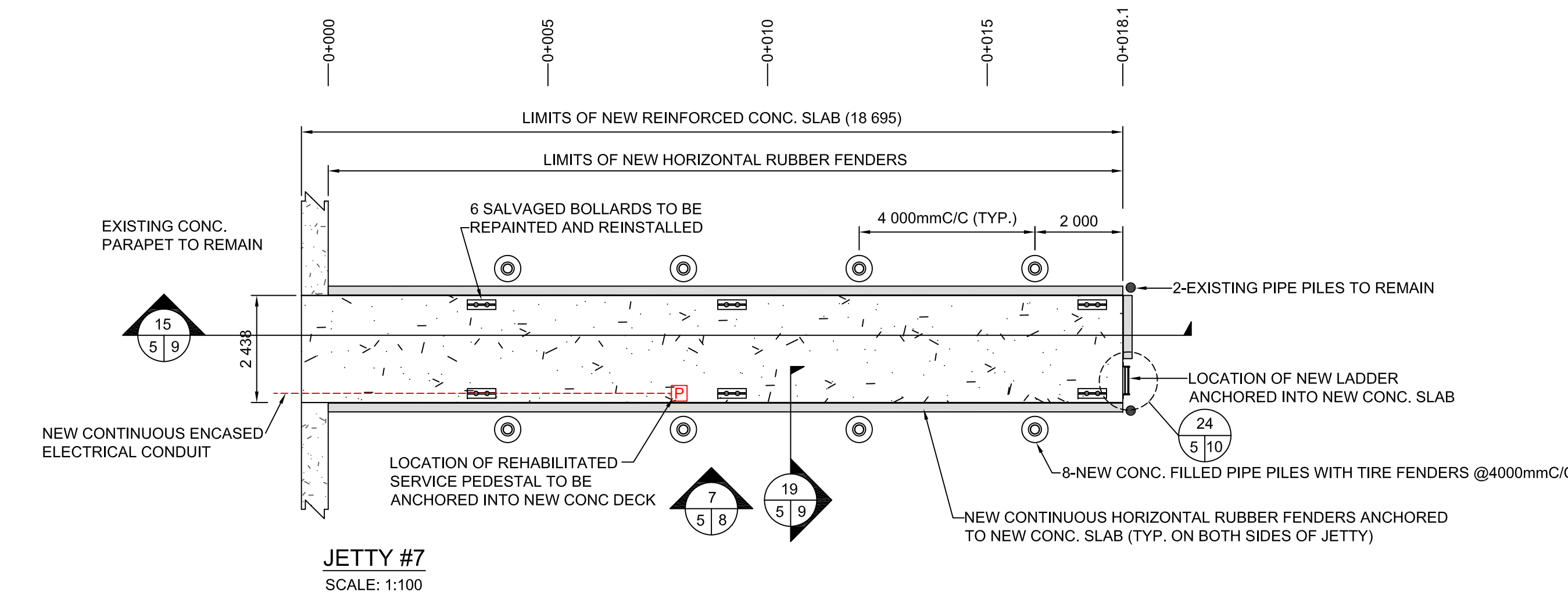
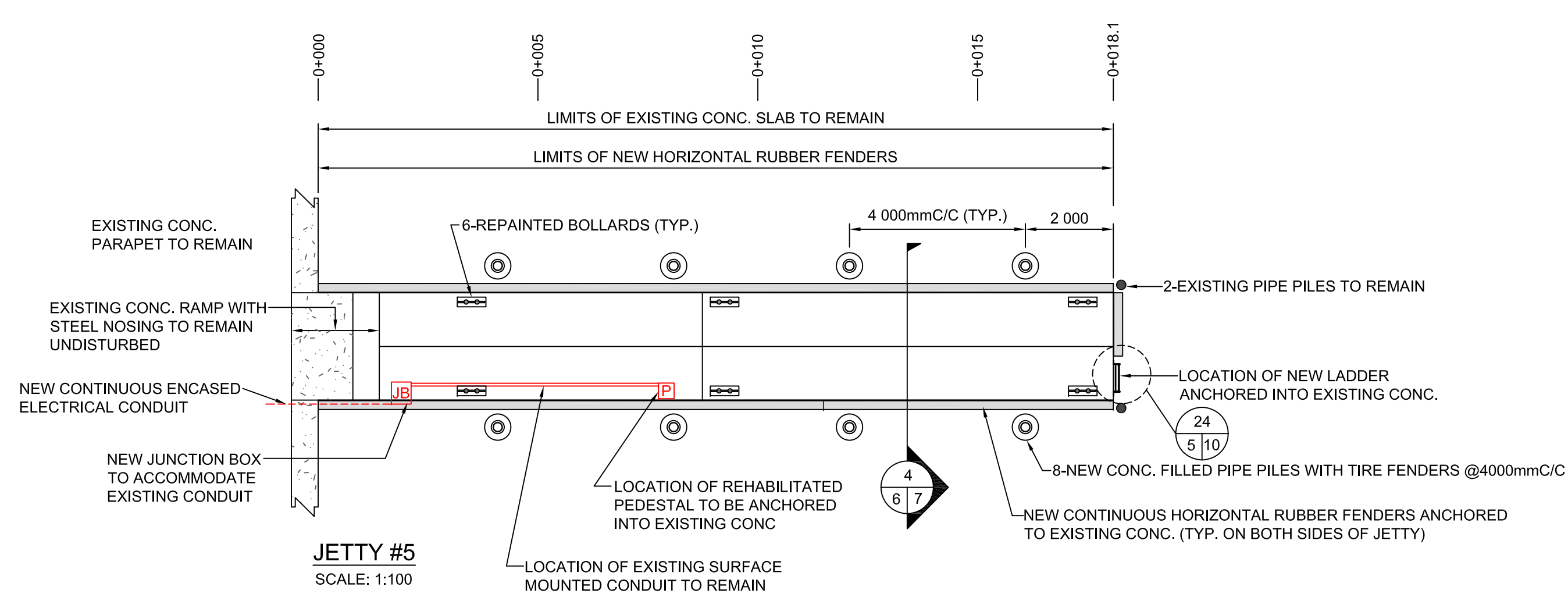
PROJECT:
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
**REPAIRED JETTY
LAYOUT PLANS**

DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

DRAWING NO.: MA-06	LOCATOR CODE: 140433-001
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SMALL CRAFT HARBOURS
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PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

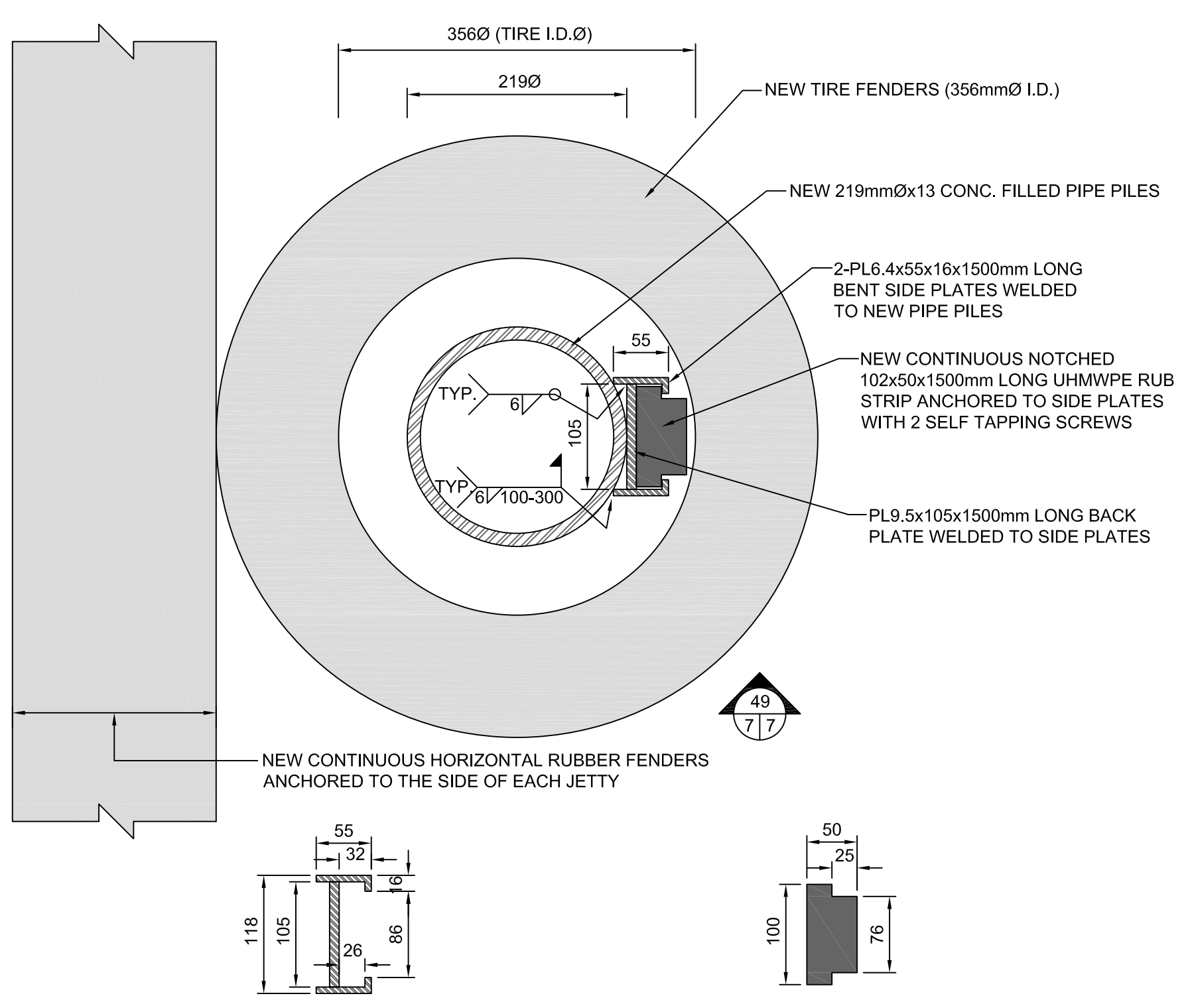
DESCRIPTION:
REPAIRED TYP. SECTIONS

DRAWN: **A.M** APPROVED: **B.R.**

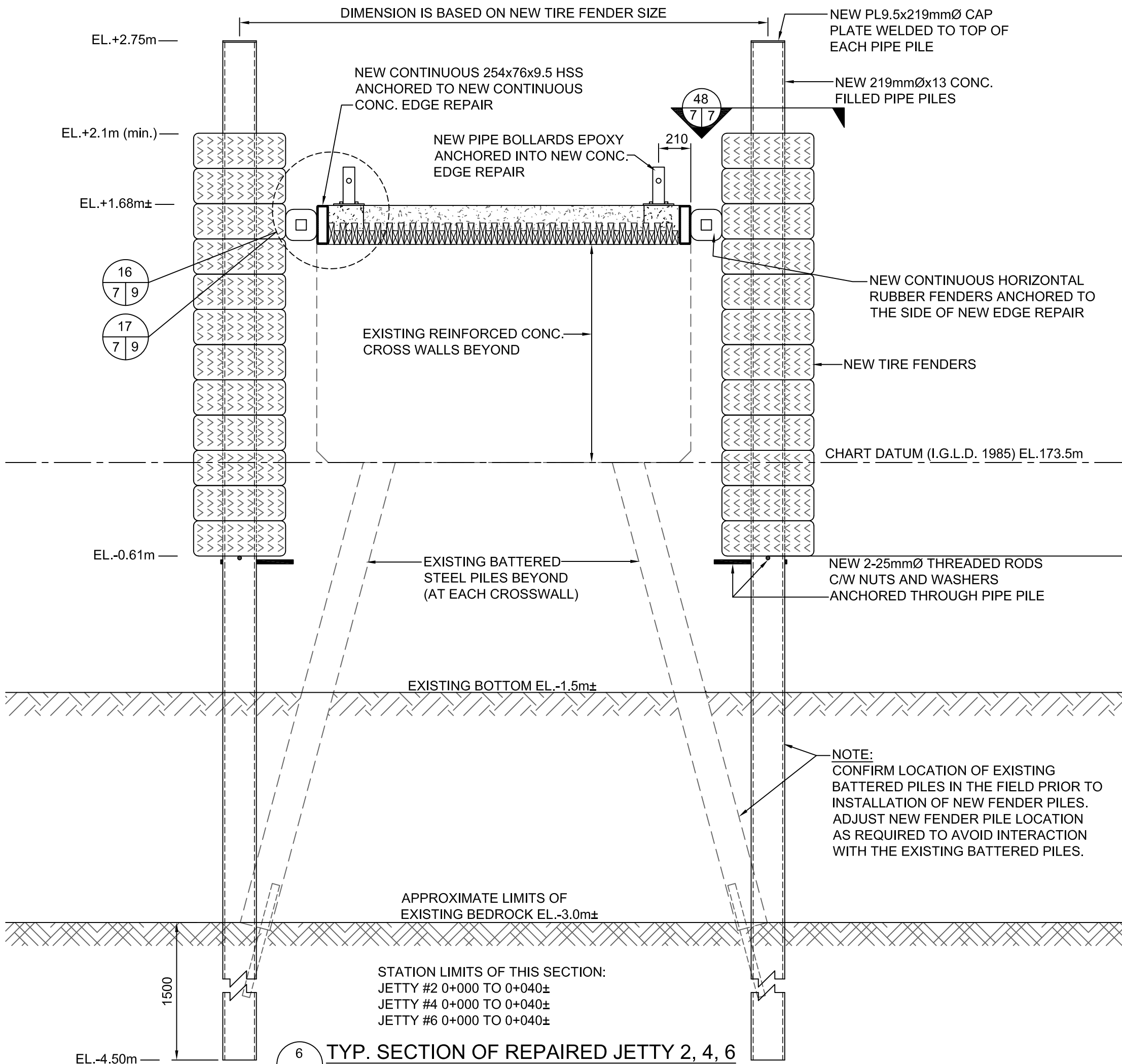
DATE: **2016-03-31** DATE: **2016-03-31**

LOCATION:
**PORT DOVER
 ONTARIO**

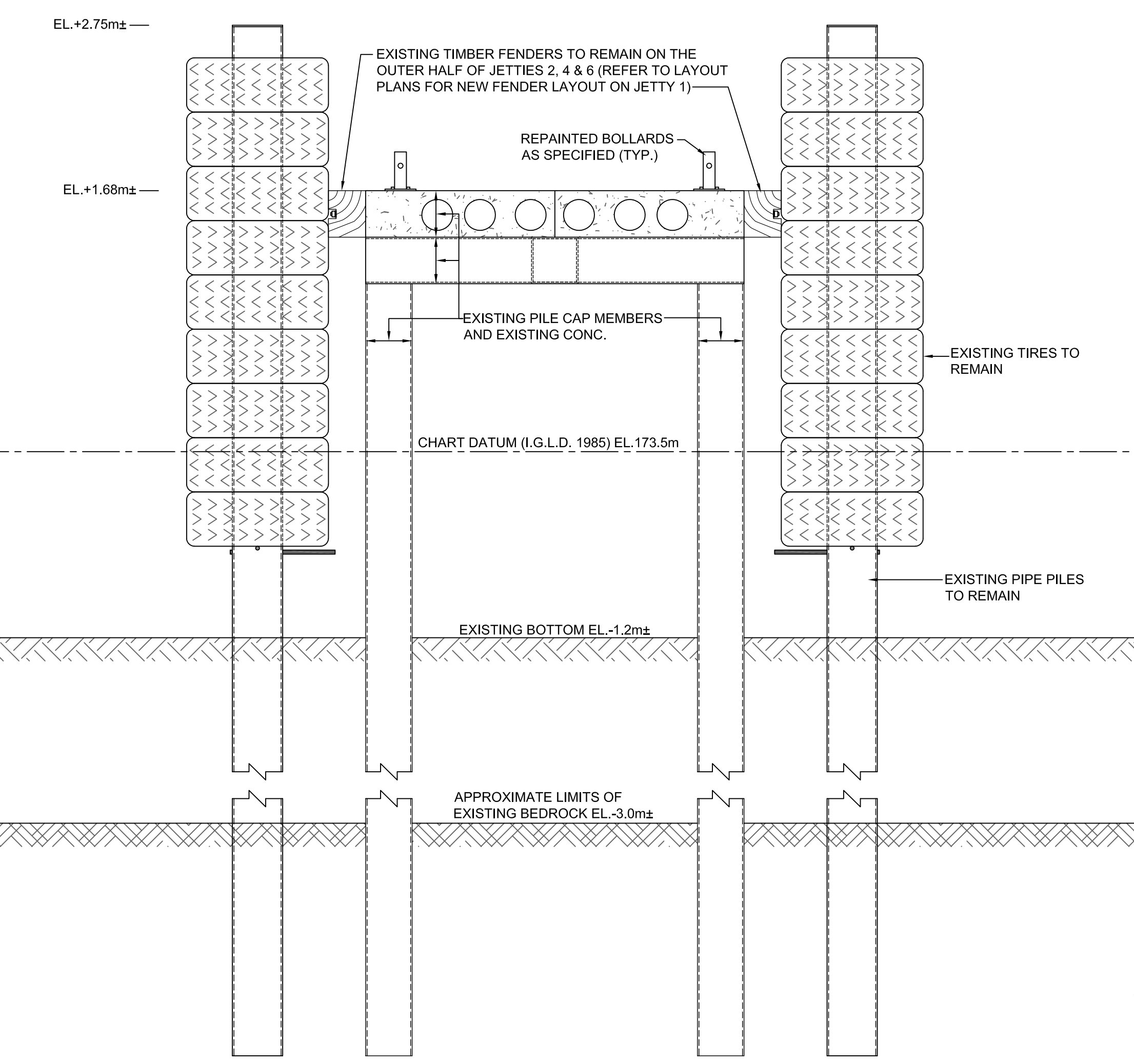
DRAWING NO.: **MA-07** LOCATOR CODE: **140433-001**



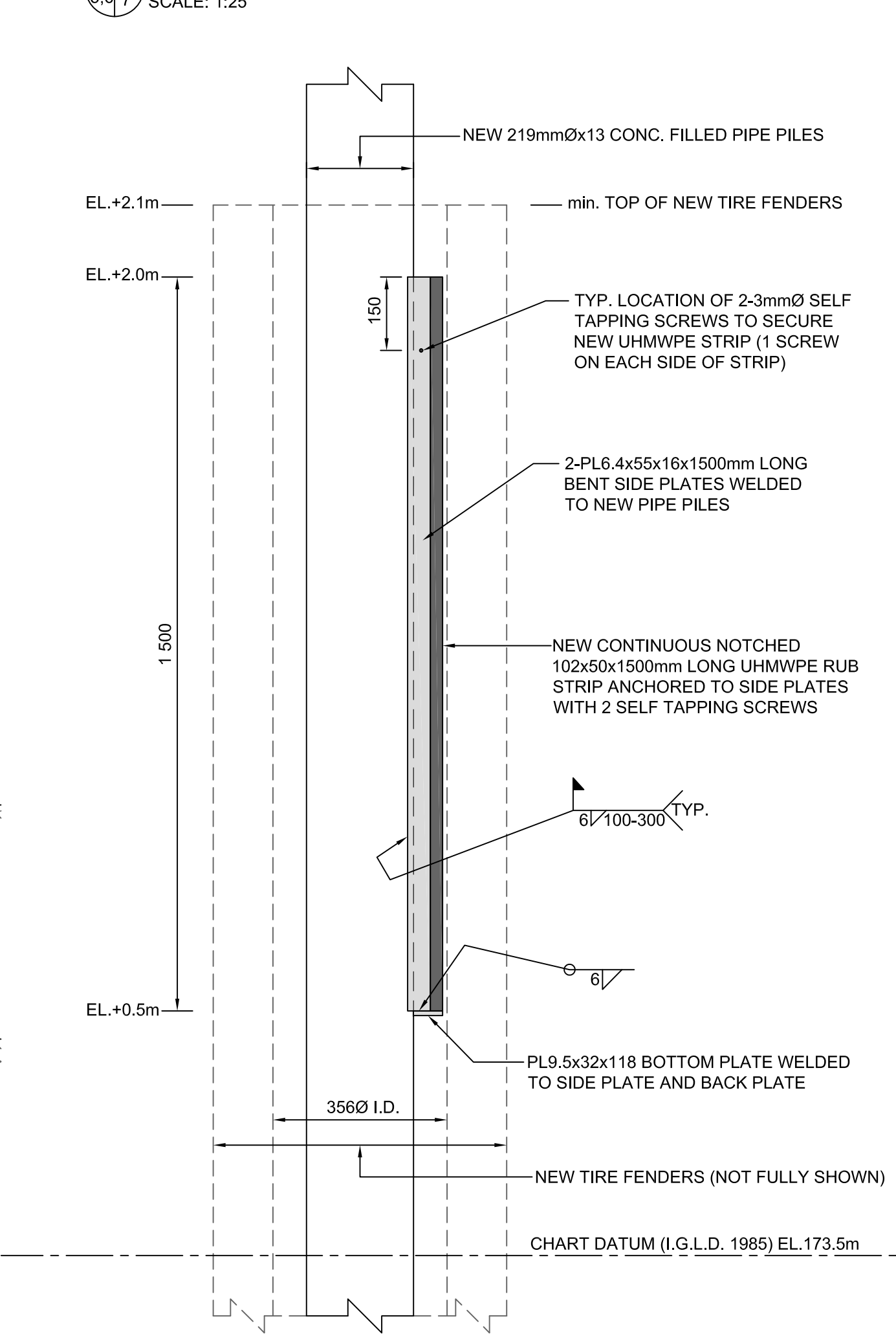
48 TYP. NEW FENDER RUB STRIP PLAN DETAIL (JETTY 1, 2, 3, 4, 5, 6, 7)
 SCALE: 1:5



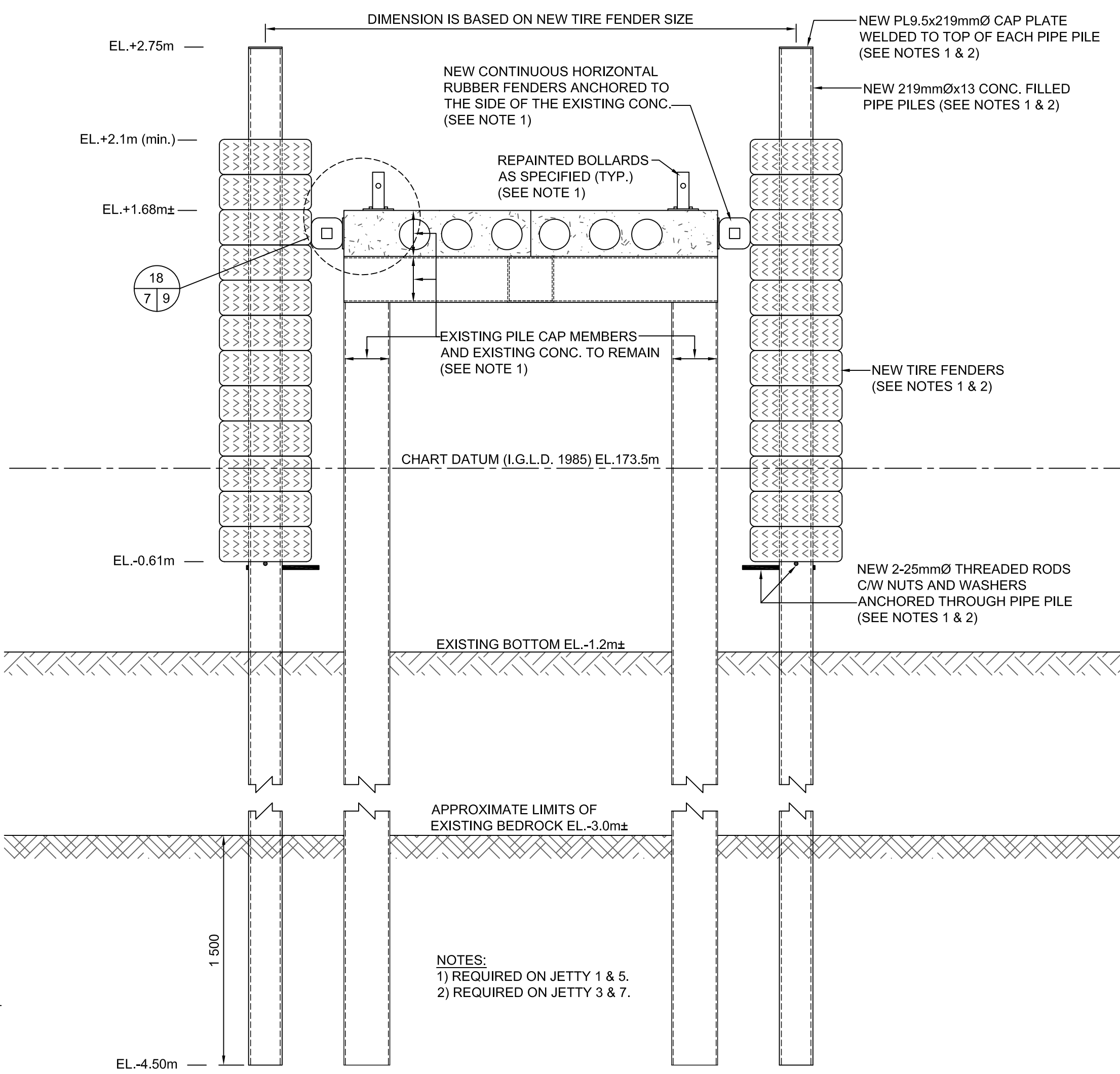
6 TYP. SECTION OF REPAIRED JETTY 2, 4, 6
 SCALE: 1:25



5 TYP. SECTION OF REPAIRED JETTY #1, 2, 4, 6
 SCALE: 1:25



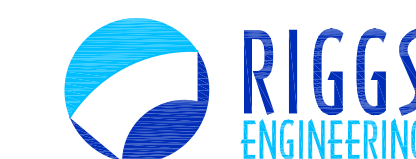
49 TYP. NEW FENDER RUB STRIP SIDE ELEVATION
 SCALE: 1:10



4 TYP. SECTION OF REPAIRED JETTY #1 & 5
 SCALE: 1:25

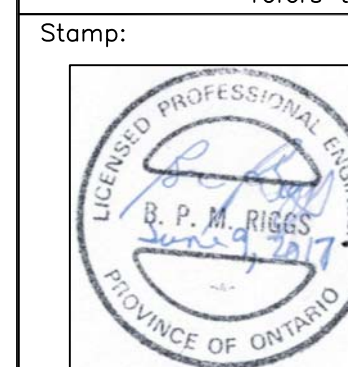
STATION LIMITS OF THIS SECTION:
 JETTY #1 0+000 TO 0+006.3±
 JETTY #5 0+000 TO 0+018±

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SCALE: AS NOTED CLASS: AS NOTED

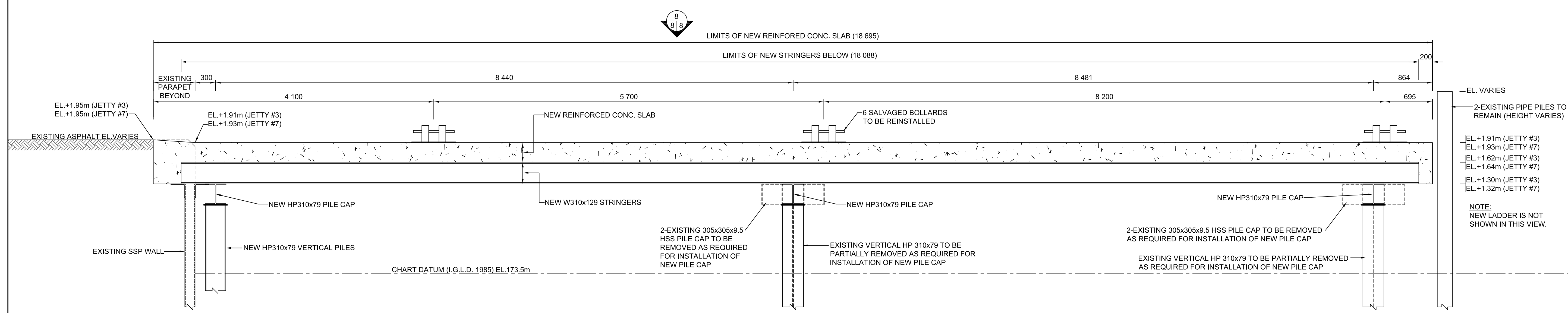
PROJECT: FISHERMEN'S BASIN
 JETTY REHABILITATION

DESCRIPTION: TYP. DETAILS FOR
 JETTY 3 & 7

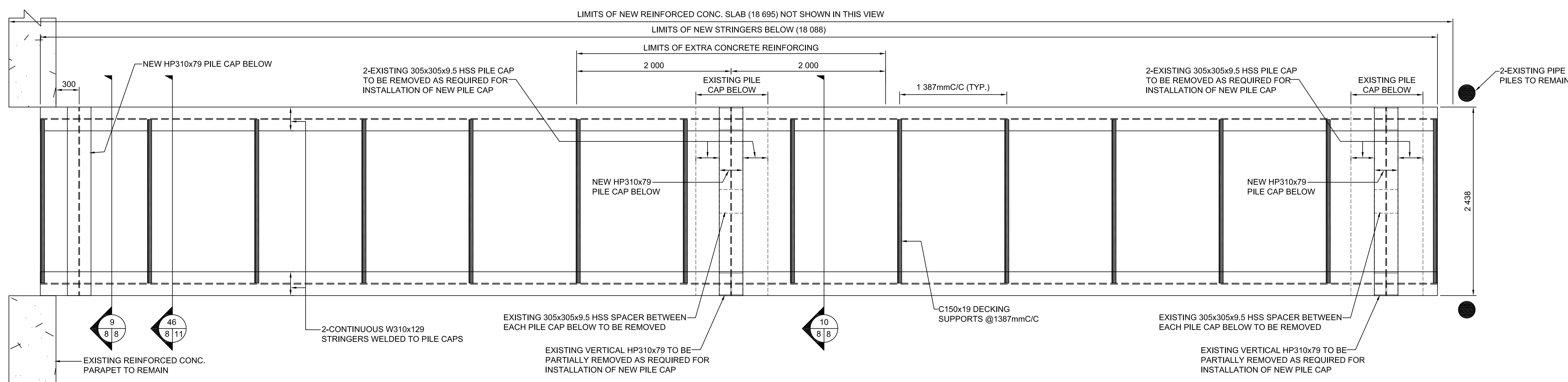
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION: PORT DOVER
 ONTARIO

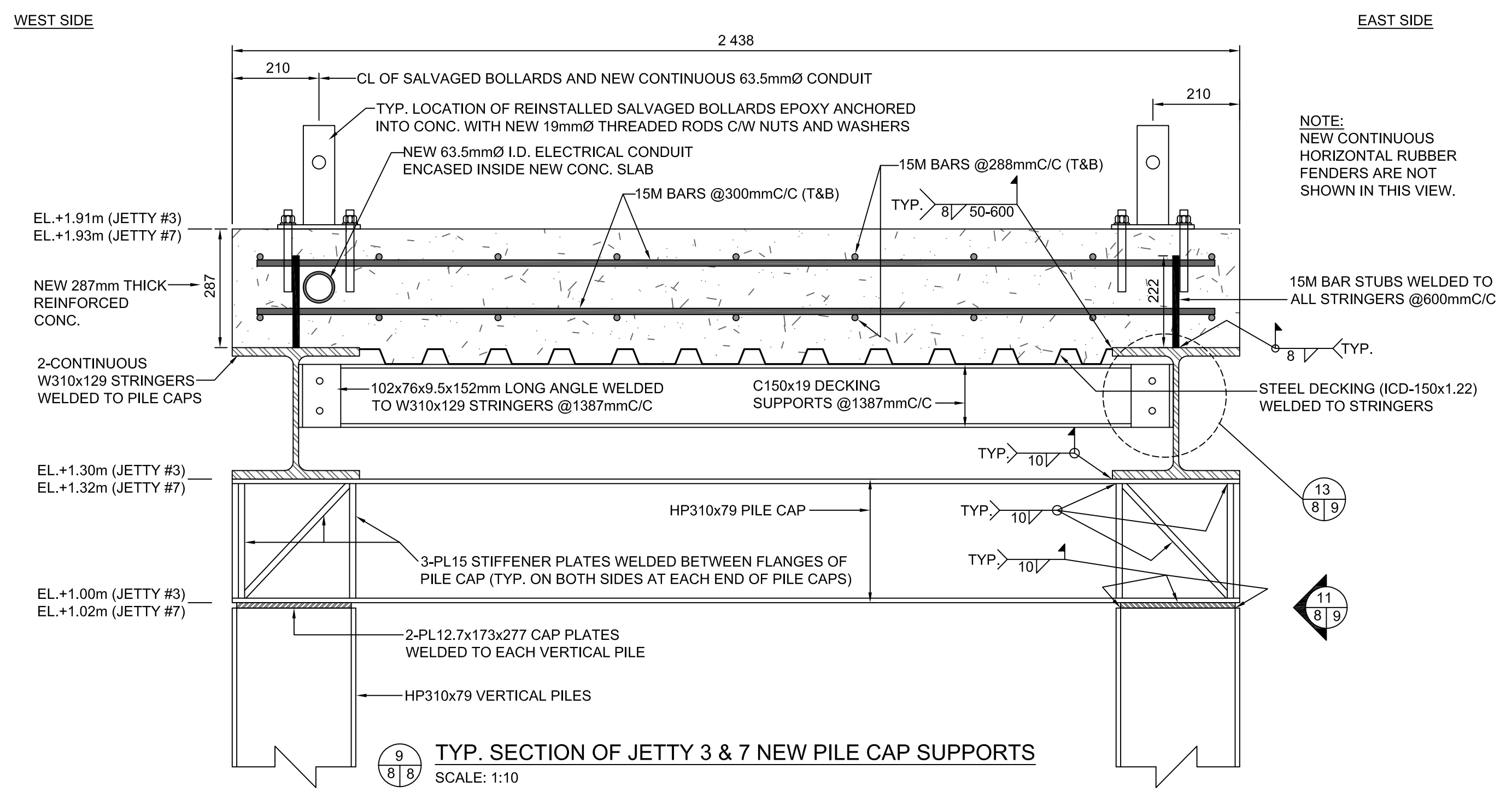
DRAWING NO.: MA-08	LOCATOR CODE: 140433-001
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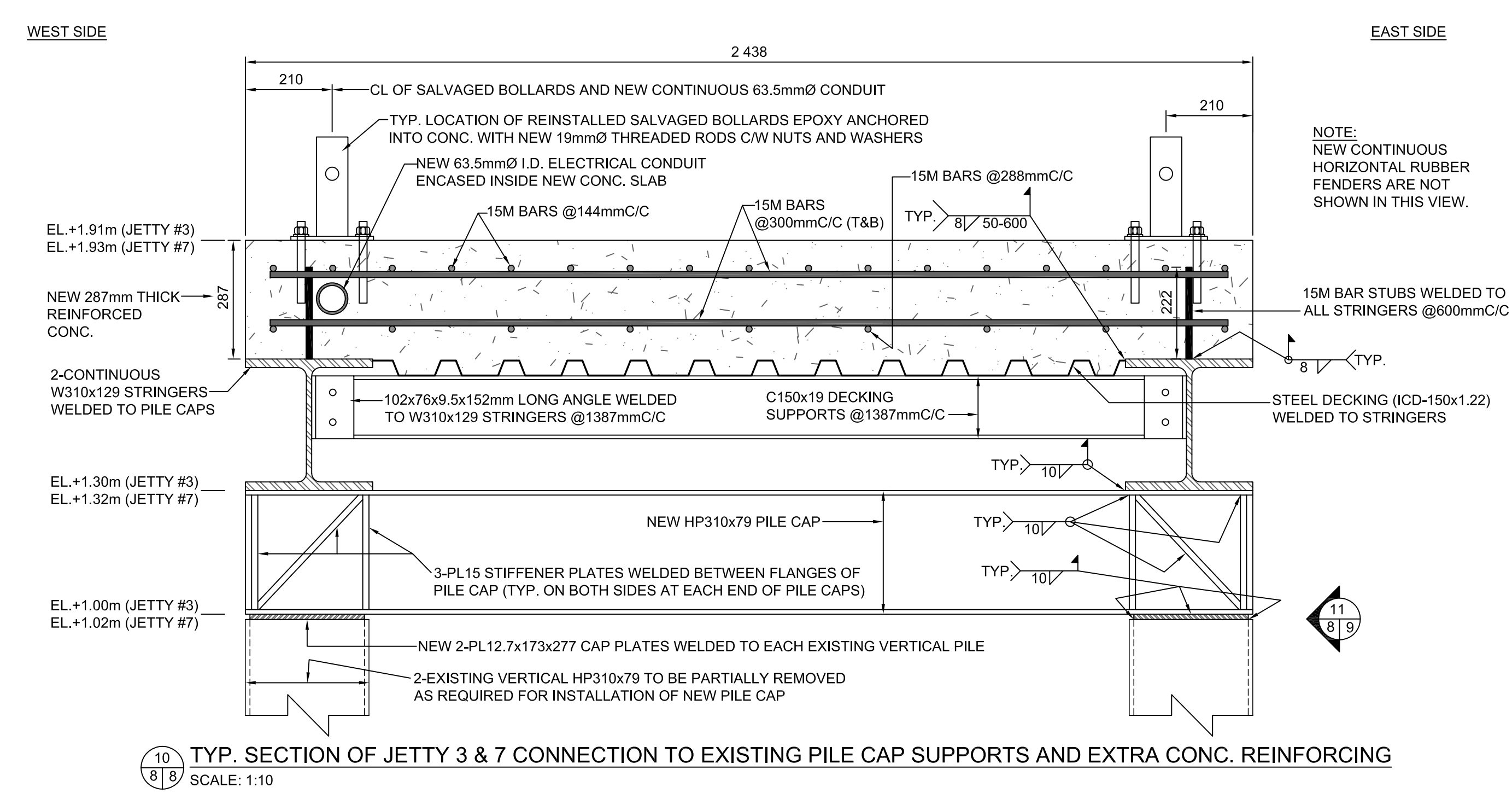
7 TYP. SIDE ELEVATION OF NEW CONC. SLAB ON JETTY #3 & 7
 SCALE: 1:30



8 NEW FRAMING LAYOUT FOR JETTY 3 & 7
 SCALE: 1:30

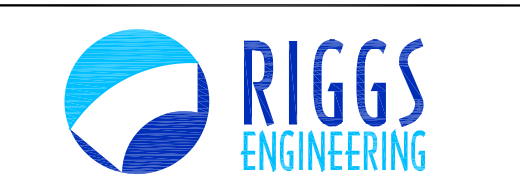


9 TYP. SECTION OF JETTY 3 & 7 NEW PILE CAP SUPPORTS
 SCALE: 1:10



10 TYP. SECTION OF JETTY 3 & 7 CONNECTION TO EXISTING PILE CAP SUPPORTS AND EXTRA CONC. REINFORCING
 SCALE: 1:10

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- 1 Detail No.
- 2 drawing no. - where detail required refers to MA-
- 3 drawing no. - where detailed refers to MA-



NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

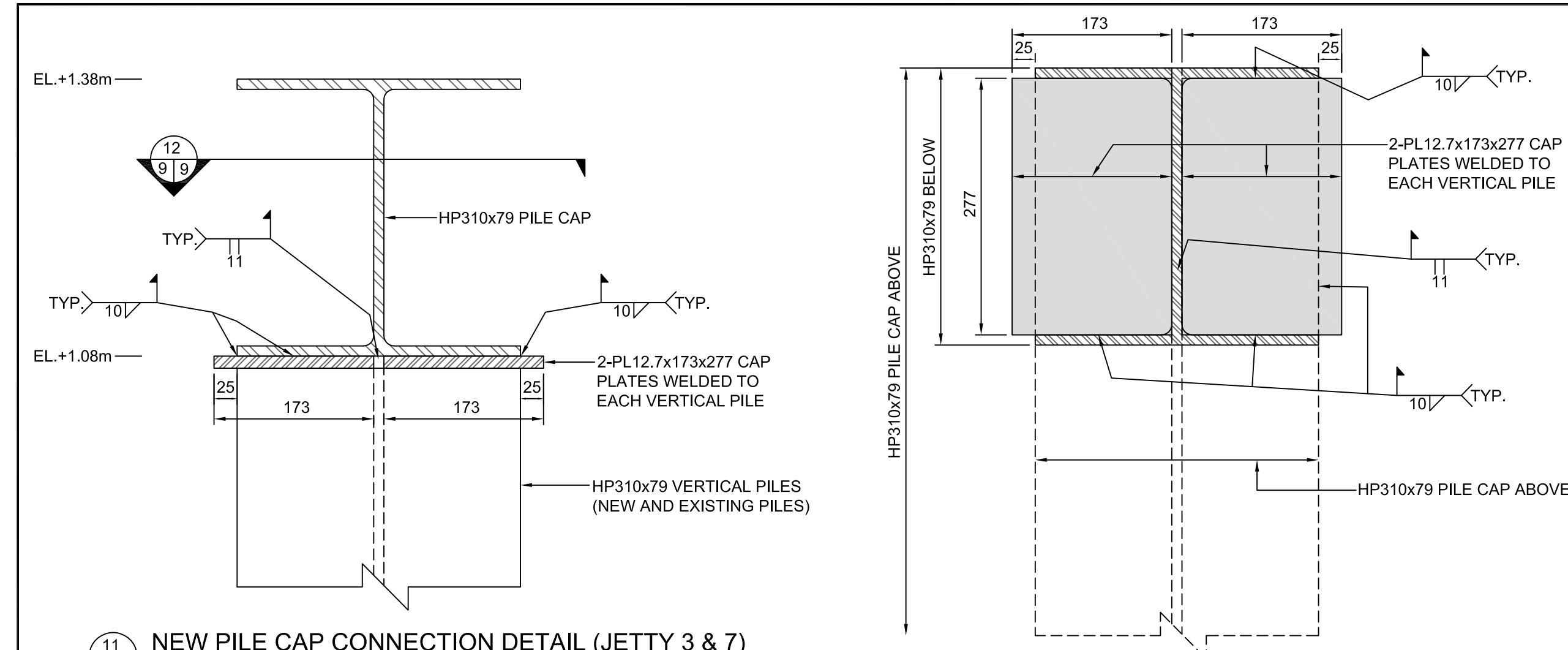
PROJECT:
**FISHERMEN'S BASIN
 JETTY REHABILITATION**

DESCRIPTION:
TYP. DETAILS

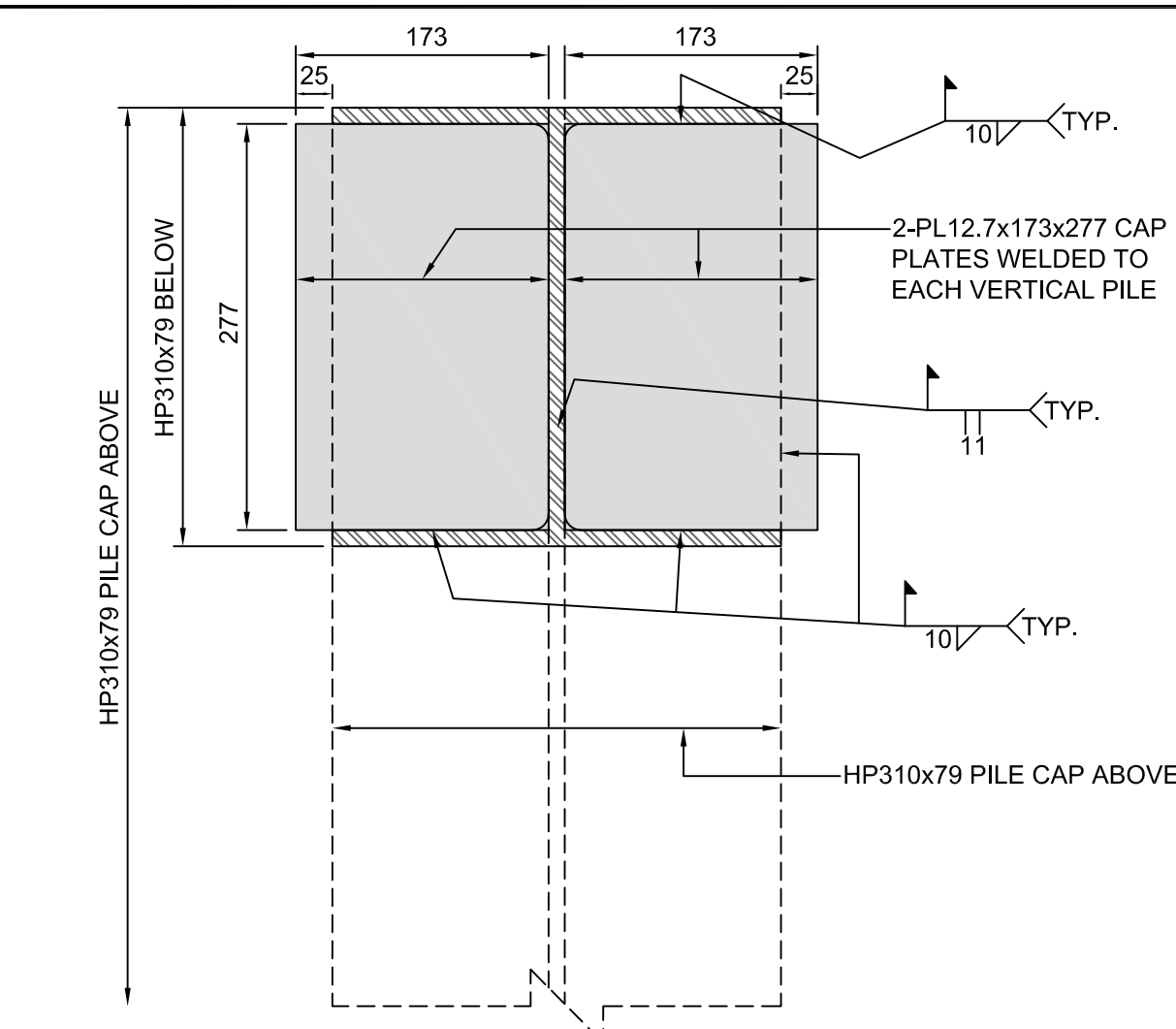
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
 ONTARIO**

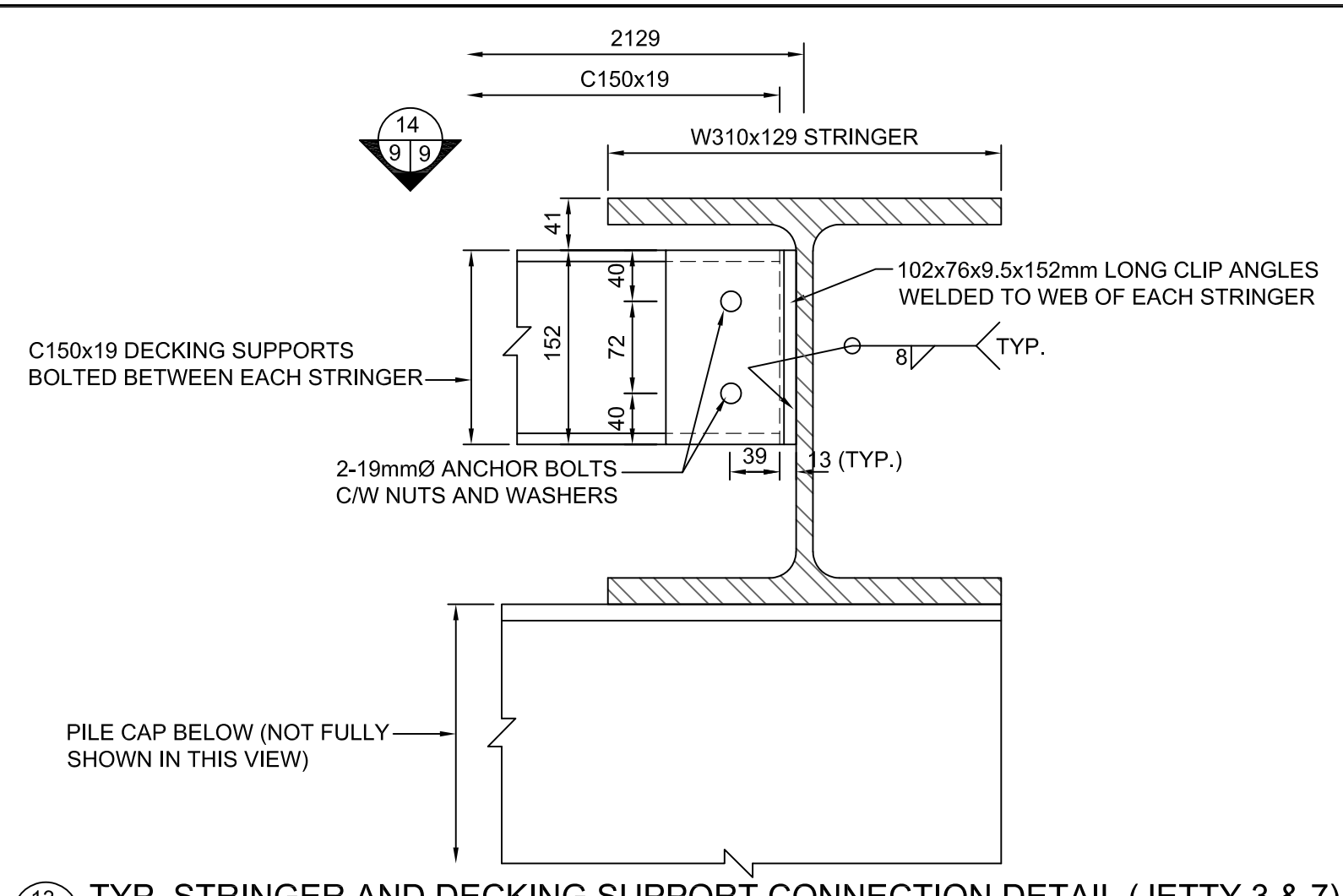
DRAWING NO.: MA-09	LOCATOR CODE: 140433-001
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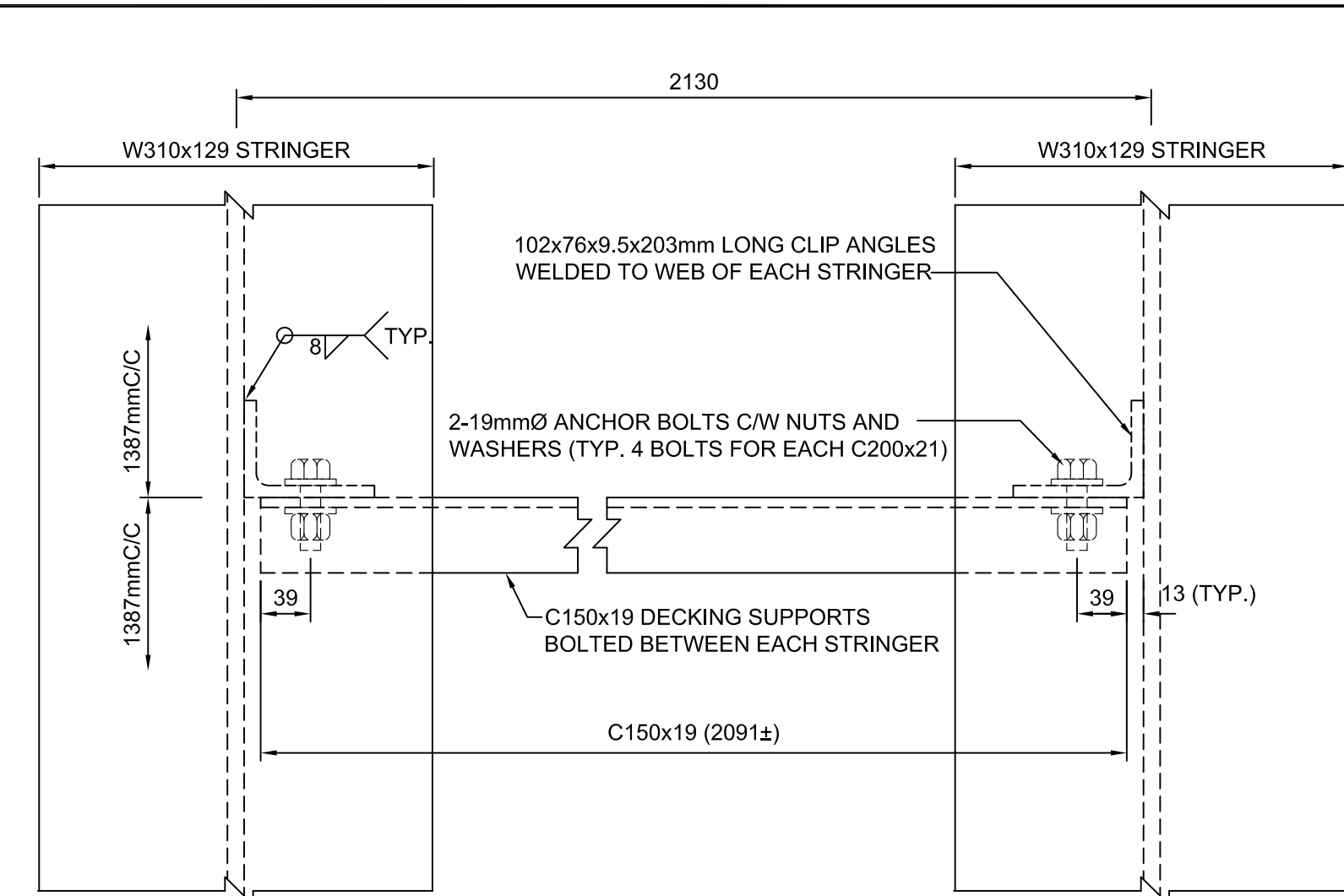
11
 NEW PILE CAP CONNECTION DETAIL (JETTY 3 & 7)
 SCALE: 1:5



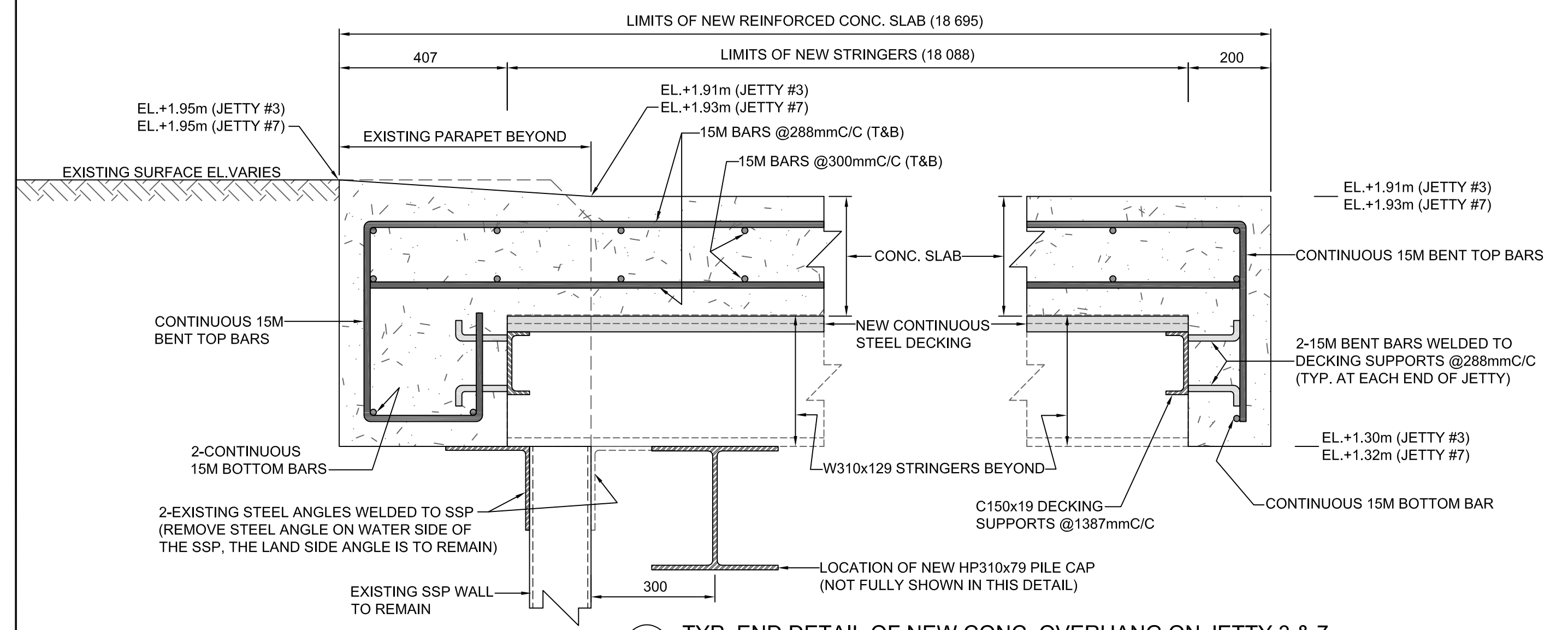
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 NEW PILE CAP CONNECTION PLAN DETAIL (JETTY 3 & 7)
 SCALE: 1:5



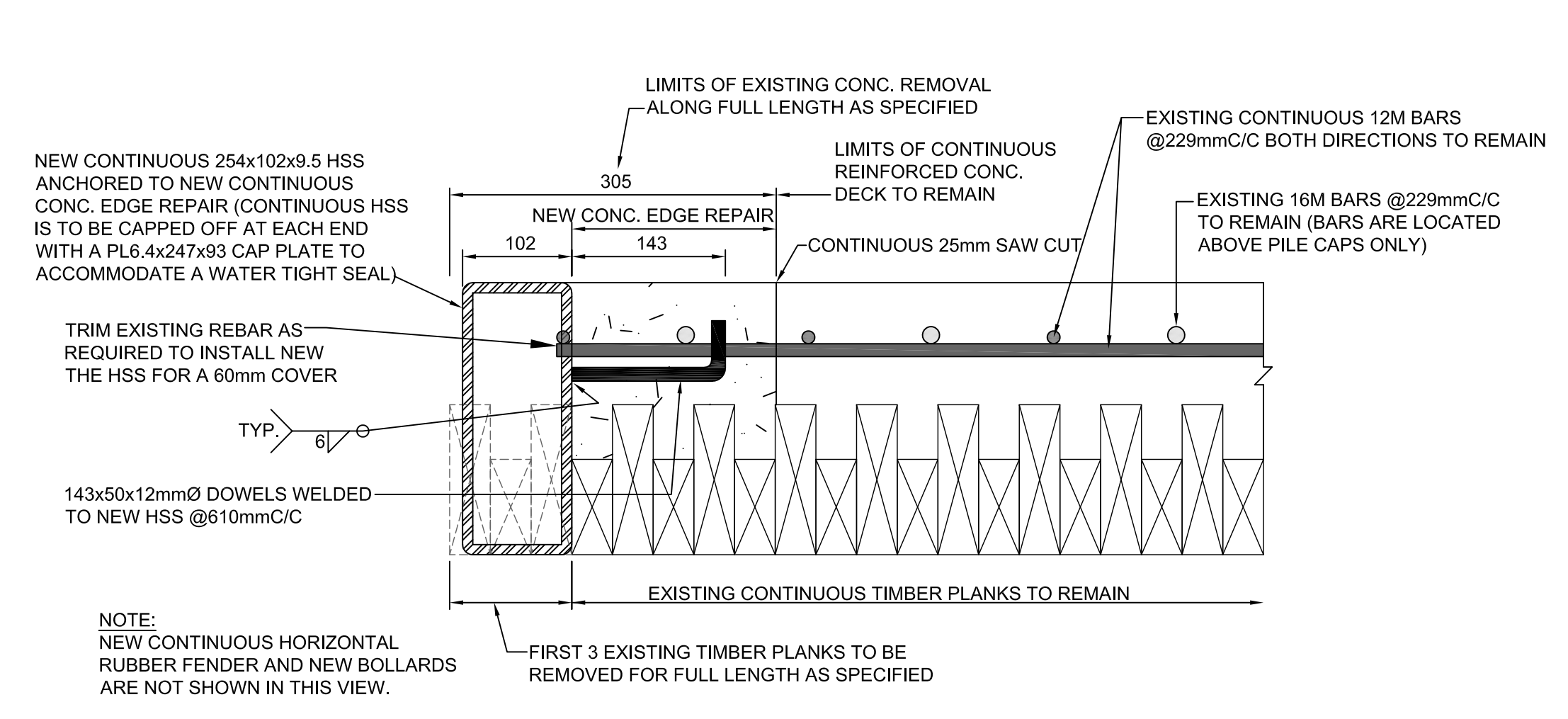
13
 TYP. STRINGER AND DECKING SUPPORT CONNECTION DETAIL (JETTY 3 & 7)
 SCALE: 1:5



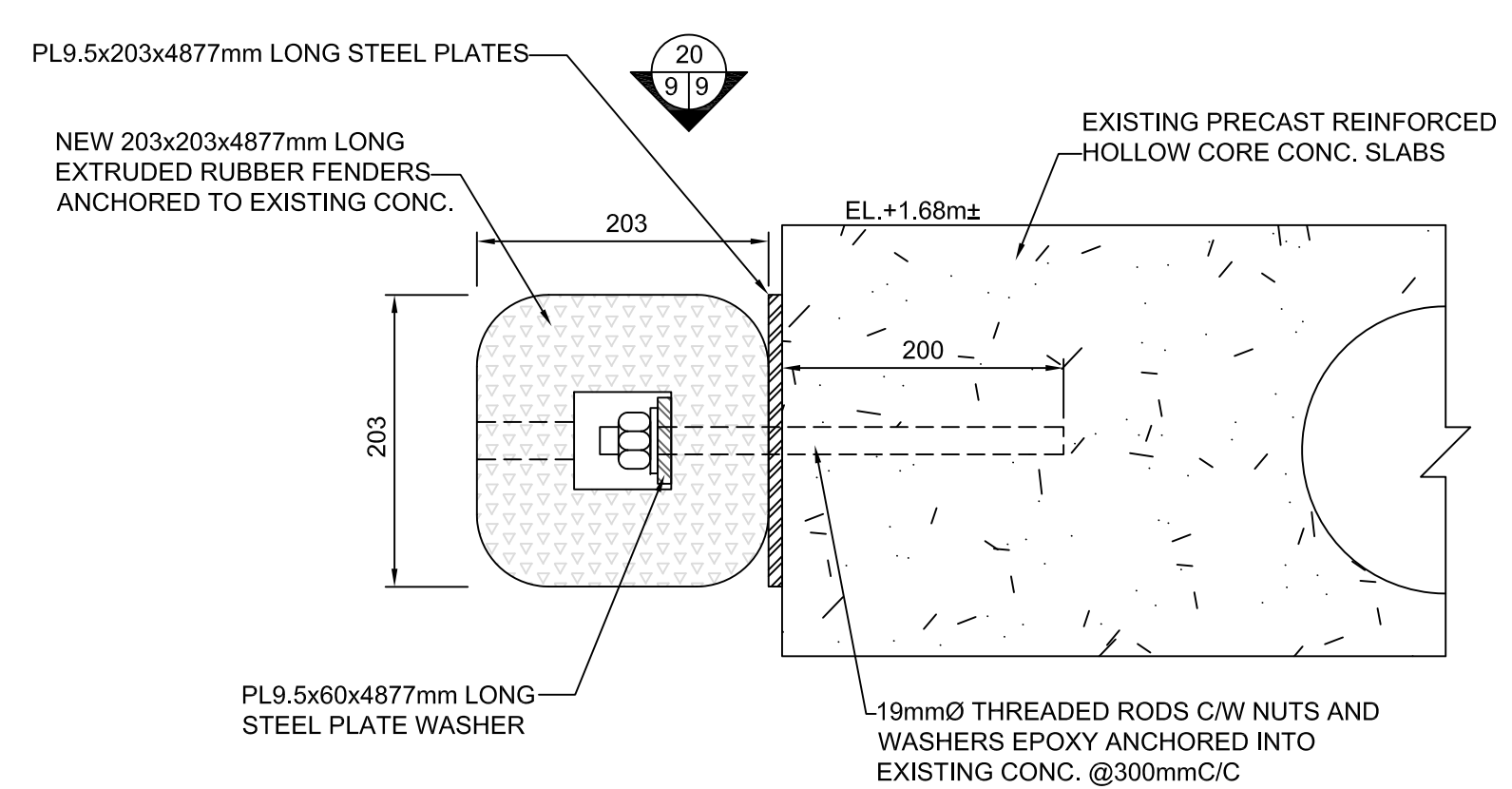
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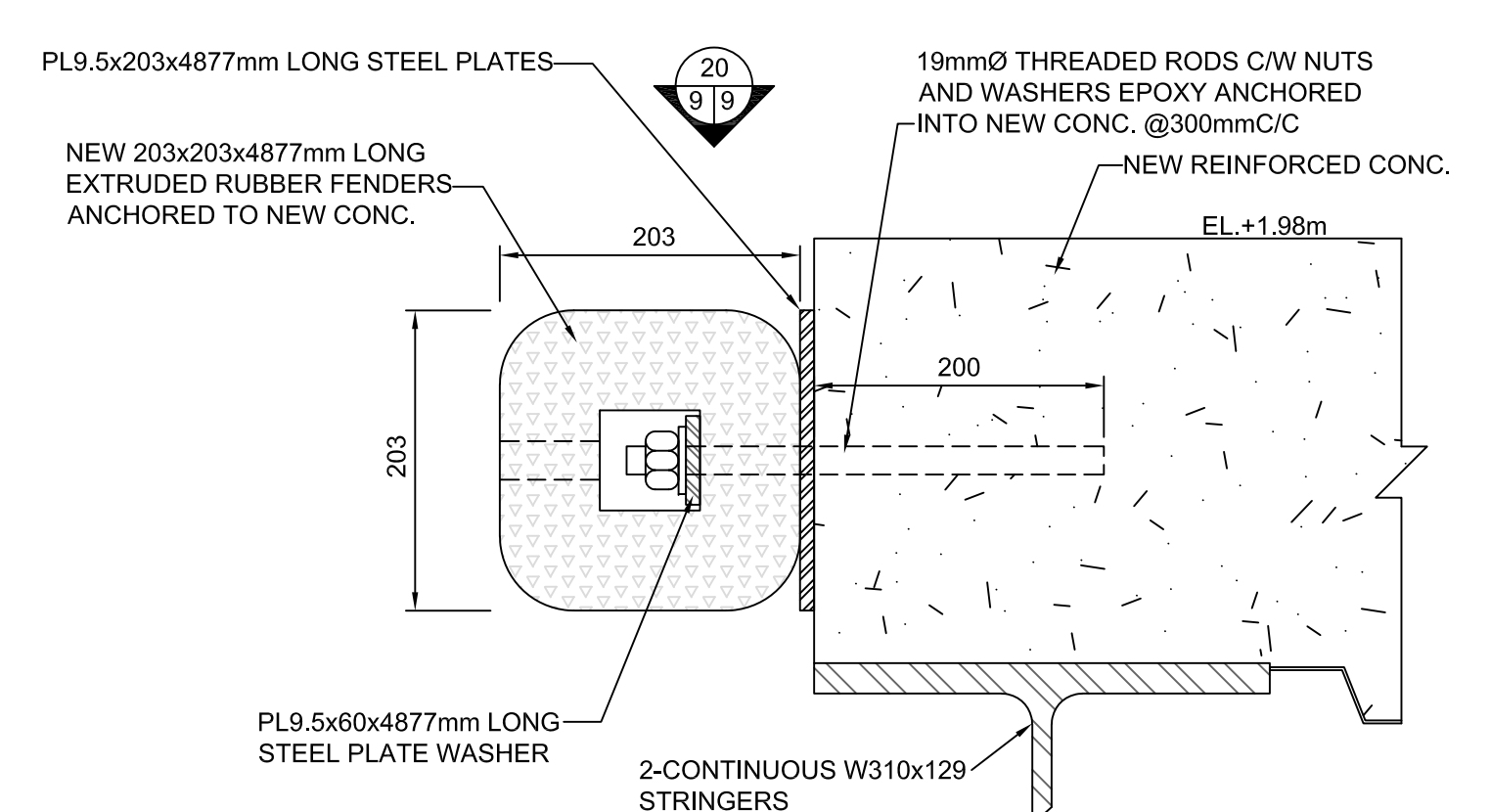
15
 TYP. END DETAIL OF NEW CONC. OVERHANG ON JETTY 3 & 7
 SCALE: 1:10



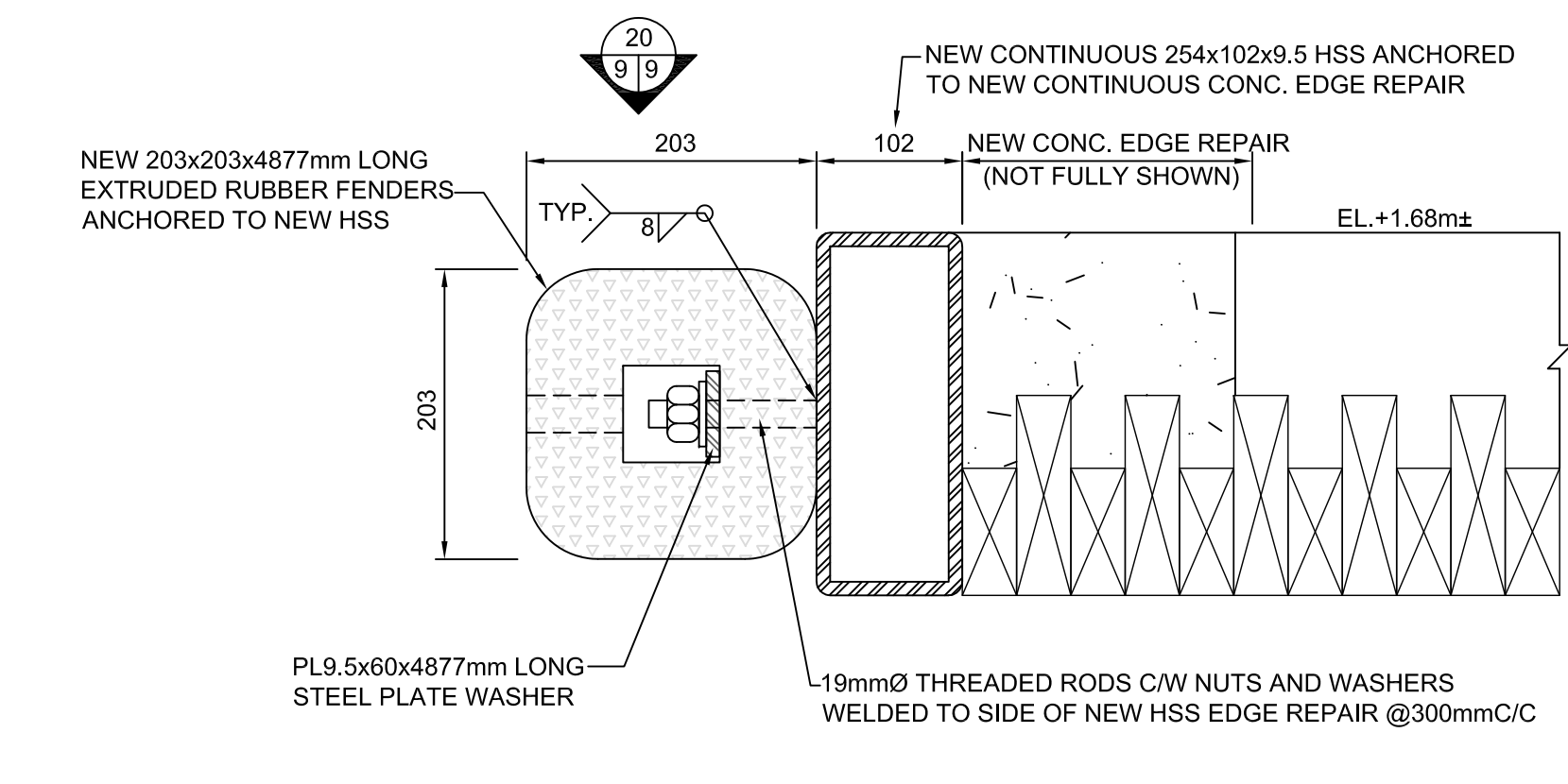
16
 TYP. EDGE REPAIR DETAIL (JETTY 2, 4 & 6)
 SCALE: 1:5



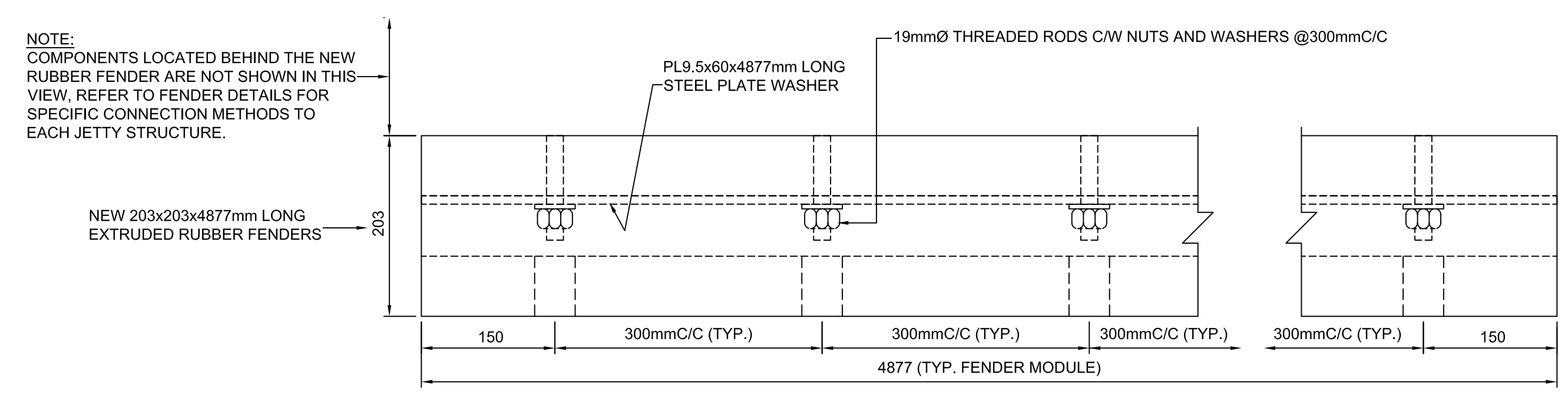
18
 NEW HORIZONTAL FENDER INSTALLATION DETAIL (JETTY 1 & 5)
 SCALE: 1:5



19
 NEW HORIZONTAL FENDER INSTALLATION DETAIL (JETTY 3 & 7)
 SCALE: 1:5



17
 NEW HORIZONTAL FENDER INSTALLATION DETAIL (JETTY 2, 4 & 6)
 SCALE: 1:5



20
 TYP. NEW HORIZONTAL FENDER INSTALLATION PLAN DETAIL (JETTY 1, 2, 3, 4, 5, 6, 7)
 SCALE: 1:5

NOTE:
 COMPONENTS LOCATED BEHIND THE NEW RUBBER FENDER ARE NOT SHOWN IN THIS VIEW. REFER TO FENDER DETAILS FOR SPECIFIC CONNECTION METHODS TO EACH JETTY STRUCTURE.

SMALL CRAFT HARBOURS
CENTRAL AND ARCTIC REGION



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NOTES:

REVISIONS:	DATE:

SCALE: **AS NOTED** CLASS:

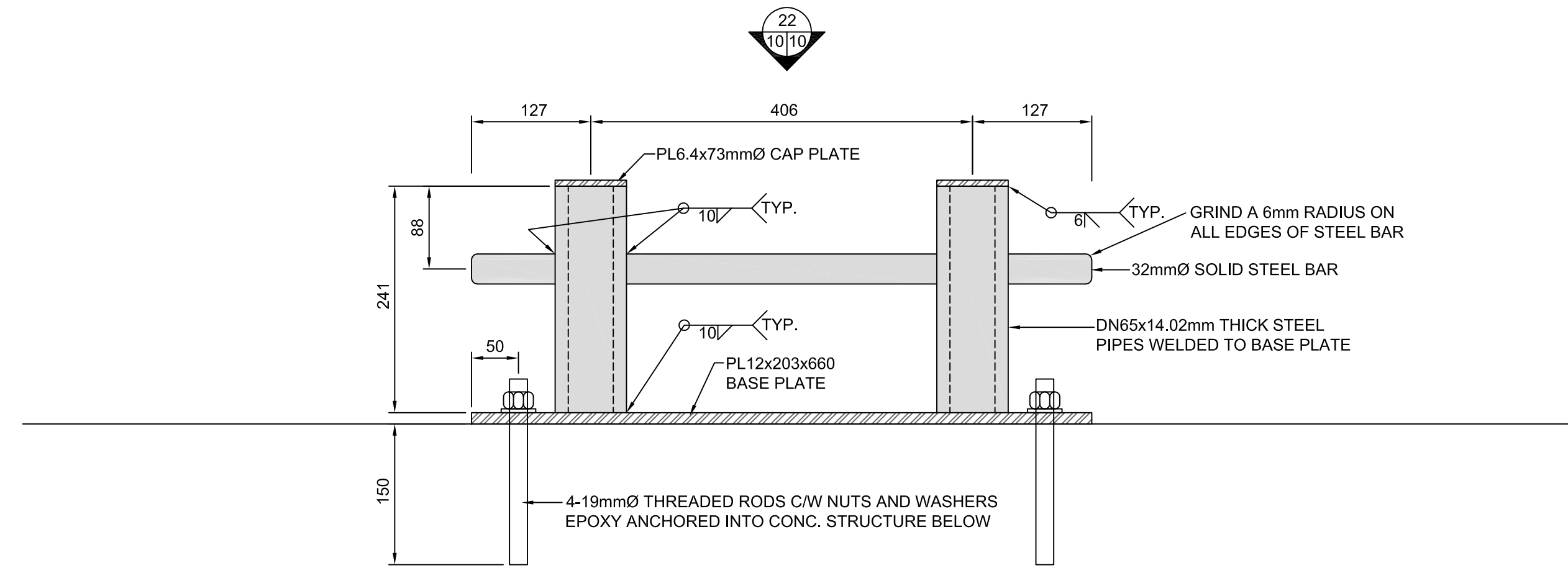
**FISHERMEN'S BASIN
JETTY REHABILITATION**

DESCRIPTION:
TYP. DETAILS

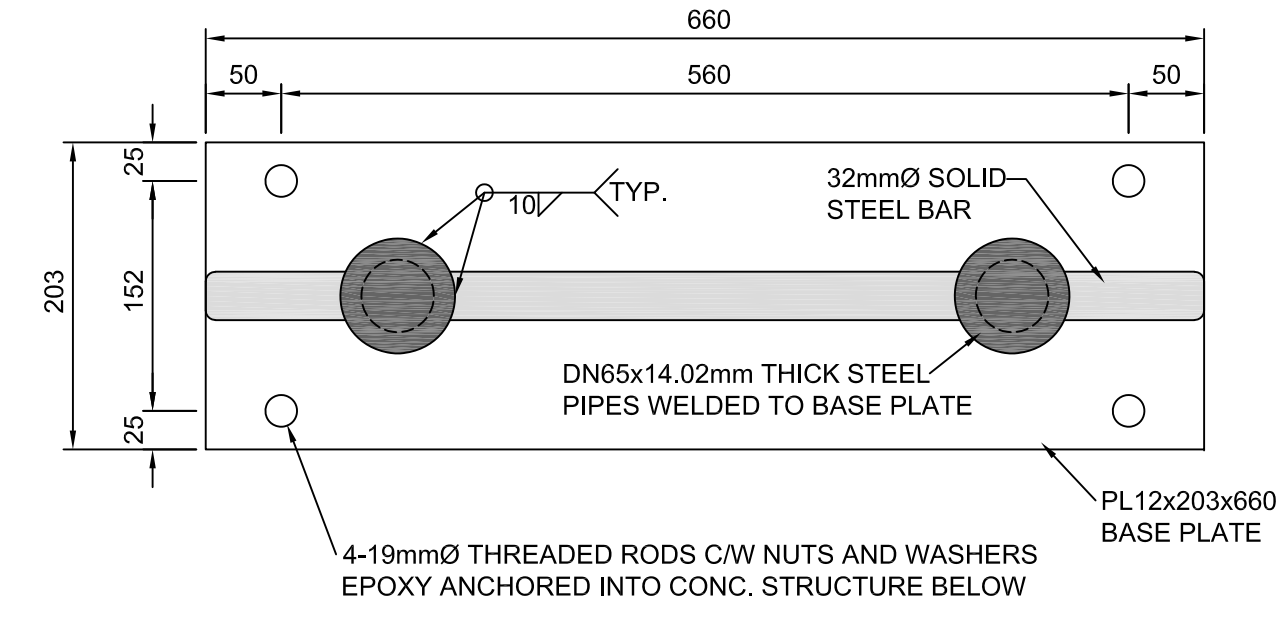
DRAWN: A.M	APPROVED: B.R.
DATE: 2016-03-31	DATE: 2016-03-31

LOCATION:
**PORT DOVER
ONTARIO**

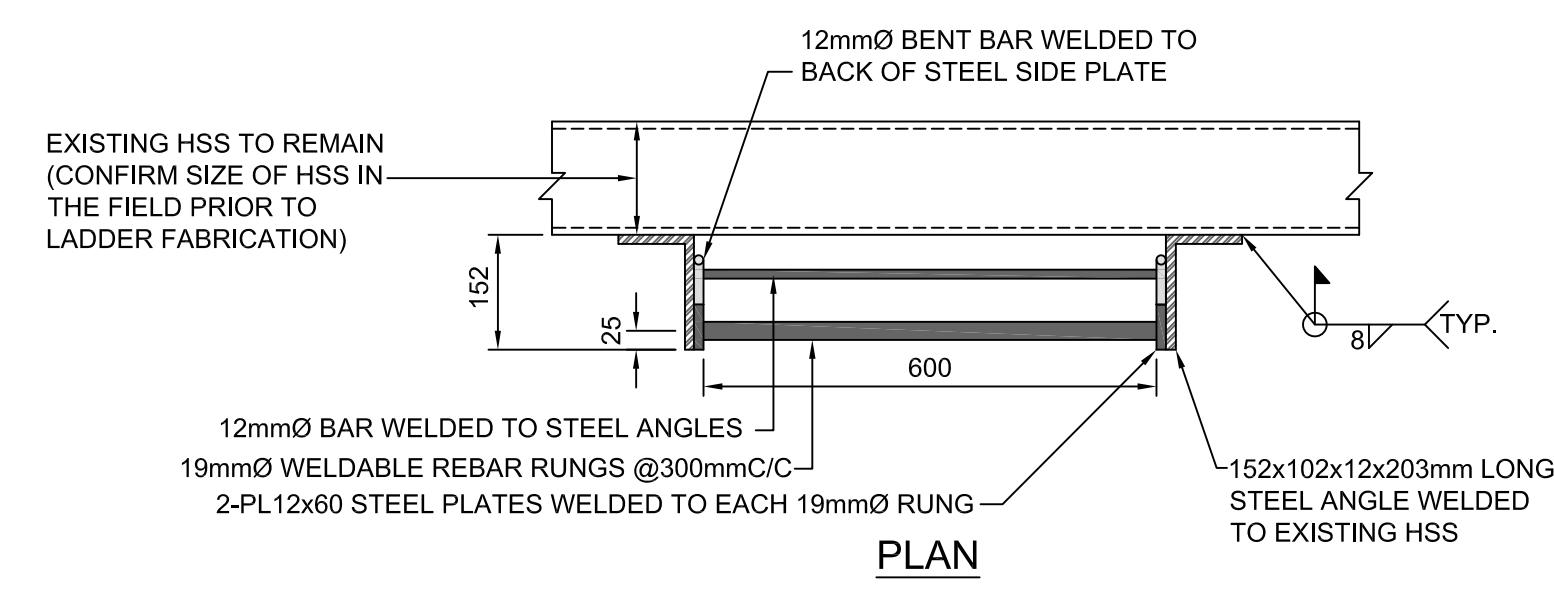
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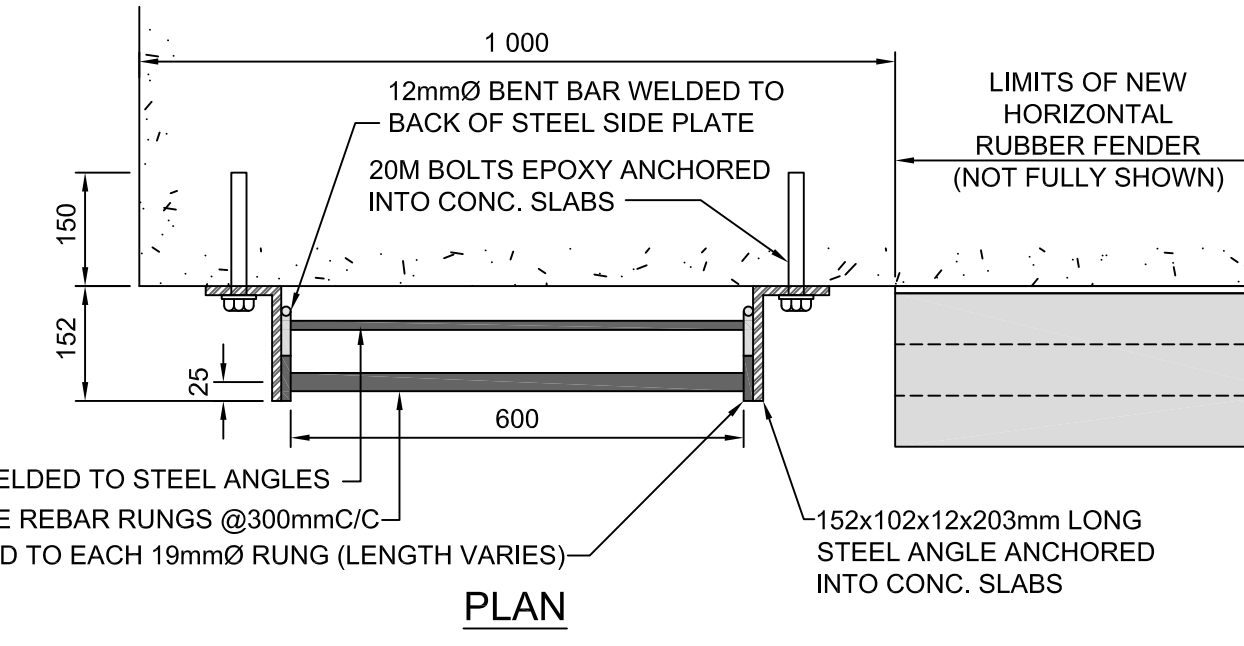
21 TYP. ELEVATION DETAIL OF NEW PIPE BOLLARD
SCALE: 1:5



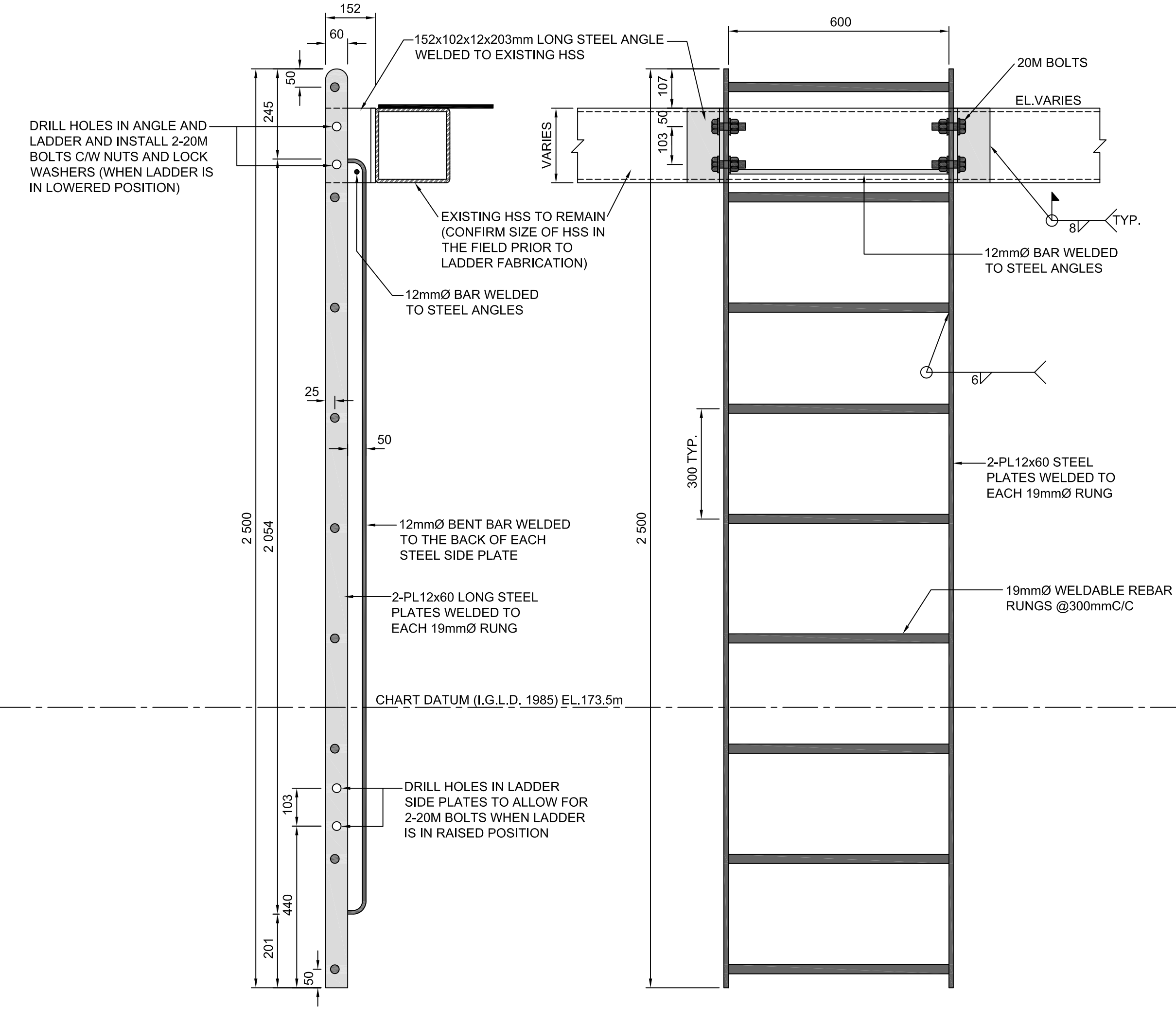
22 TYP. PLAN DETAIL OF NEW PIPE BOLLARD
SCALE: 1:5



PLAN



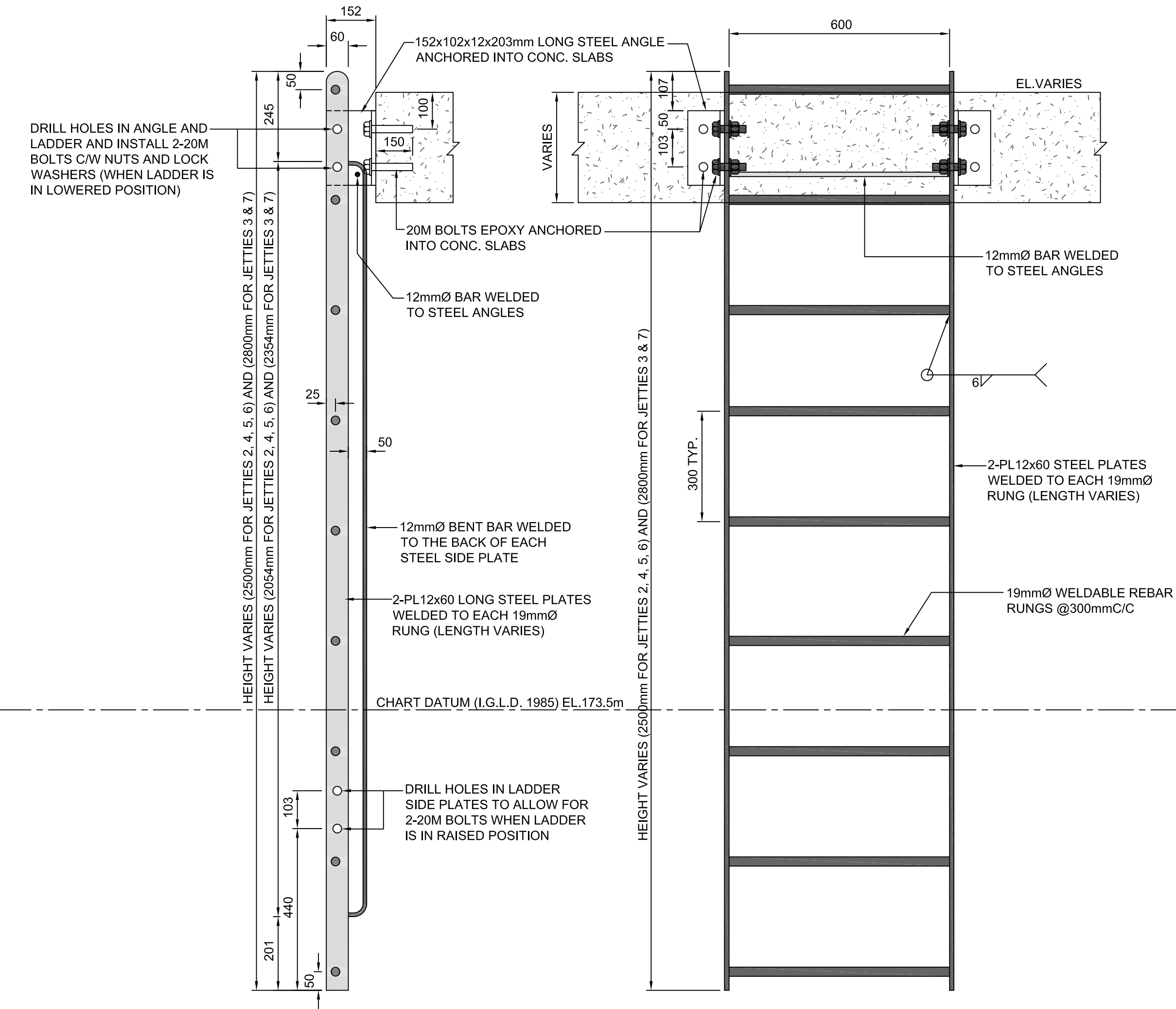
PLAN



SECTION

ELEVATION

23 NEW LADDER DETAIL (JETTY 1)
SCALE: 1:10



SECTION

ELEVATION

24 NEW LADDER DETAIL (JETTY 2, 3, 4, 5, 6, 7)
SCALE: 1:10